

# ANNEX

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- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalotti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzinger, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: HESS upper limits on very high energy gamma-ray emission from the microquasar GRS 1915+105. In: *Astronomy and Astrophysics* 508, 3, 1135-1140 (2009).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalotti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzinger, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Probing the ATIC peak in the cosmic-ray electron spectrum with H.E.S.S.. In: *Astronomy and Astrophysics* 508, 2, 561-564 (2009).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalotti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzinger, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Detection of Gamma Rays from a Starburst Galaxy. In: *Science* 326, 5956, 1080-1082 (2009).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, J. Conrad, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, A. Marcowith, J. Masbou,

- D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzinger, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: HESS upper limits on very high energy gamma-ray emission from the microquasar GRS 1915+105. In: *Astronomy & Astrophysics* **508**, 3, 1135-1140 (2009).*
- Adamova, D., G. Agakichiev, D. Antonczyk, H. Appelschauser, V. Belaga, J. Bielcikova, P. Braun-Munzinger, O. Busch, A. Cherlin, S. Damjanovic, T. Dietel, L. Dietrich, A. Drees, W. Dubitzky, S. I. Esumi, K. Filimonov, K. Fomenko, Z. Fraenkel, C. Garabatos, P. Glassel, J. Holeczek, M. Kalisky, S. Kniese, V. Kuschpil, A. Maas, A. Marin, J. Milosevic, A. Milov, D. Miskowicz, Y. Panebrattsev, O. Petchenova, V. Petracek, A. Pfeiffer, M. Ploskon, J. Rak, I. Ravinovich, P. Rehak, H. Sako, W. Schmitz, S. Schuchmann, S. Sedykh, S. Shimansky, J. Stachel, M. Sumbera, H. Tilsner, I. Tserruya, J. P. Wessels, T. Wienold, J. P. Wurm, W. Xie, S. Yurevich and V. Yurevich: Modification of jet-like correlations in Pb-Au collisions at 158A GeV/c. In: *Physics Letters B* **678**, 3, 259-263 (2009).*
- Adulpravitchai, A., A. Blum and M. Lindner: Non-Abelian discrete groups from the breaking of continuous flavor symmetries. In: Journal of High Energy Physics*, **9**, Seq. No.: 018 (2009).
- Adulpravitchai, A., A. Blum and M. Lindner: Non-Abelian discrete flavor symmetries from T-2/Z(N) orbifolds. In: Journal of High Energy Physics*, **7**, Seq. No.: 053 (2009).
- Adulpravitchai, A., A. Blum and C. Hagedorn: A Supersymmetric D4 model for  $\mu$ - $\tau$  symmetry. In: Journal of High Energy Physics* **03**, 046, 1-24 (2009).
- Adulpravitchai, A., A. Blum and W. Rodejohann: Golden Ratio Prediction for Solar Neutrino Mixing. In: New Journal of Physics* **11**, 1-13, Seq. No.: 063026 (2009).
- Adulpravitchai, A., M. Lindner and A. Merle: Confronting flavor symmetries and extended scalar sectors with lepton flavor violation bounds. In: Physical Review D* **80**, 5, 1-10, Seq. No.: 055031 (2009).
- Adulpravitchai, A., M. Lindner, A. Merle and R. N. Mohapatra: Radiative transmission of lepton flavor hierarchies. In: Physics Letters B* **680**, 5, 476-479 (2009).
- Agari, M., C. Bauer, M. Bräuer, W. Hofmann, T. Jagla, K. T. Knöpfle, M. Pleier, K. Reeves, F. Sanchez, M. Schmelling, B. Schwingenheuer, F. Sciacca, C. van Eldik, M. Zavertyaev et al. (The HERA-B Collaboration): V-0 production in p plus A collisions at root s=41.6 GeV. In: European Physical Journal C* **61**, 2, 207-221 (2009).
- Agari, M., C. Bauer, M. Bräuer, W. Hofmann, T. Jagla, K. T. Knöpfle, M. Pleier, K. Reeves, F. Sanchez, M. Schmelling, B. Schwingenheuer, F. Sciacca, C. van Eldik, M. Zavertyaev et al. (The HERA-B Collaboration): Angular distributions of leptons from J/psi's produced in 920 GeV fixed-target proton-nucleus collisions. In: European Physical Journal C* **60**, 4, 517-524 (2009).
- Agari, M., C. Bauer, M. Bräuer, W. Hofmann, T. Jagla, K. T. Knöpfle, M. Pleier, K. Reeves, F. Sanchez, M. Schmelling, B. Schwingenheuer, F. Sciacca, C. van Eldik, M. Zavertyaev et al. (The HERA-B Collaboration): Kinematic distributions and nuclear effects of J/psi production in 920 GeV fixed-target proton-nucleus collisions. In: European Physical Journal C* **60**, 4, 525-542 (2009).
- Agari, M., C. Bauer, M. Bräuer, W. Hofmann, T. Jagla, K. T. Knöpfle, M. Pleier, K. Reeves, F. Sanchez, M. Schmelling, B. Schwingenheuer, F. Sciacca, C. van Eldik, M. Zavertyaev et al. (The HERA-B Collaboration): V 0 production in p + A collisions at root s = 41.6 GeV (vol 61, pg 207, 2009). In: European Physical Journal C* **64**, 1, 167-168 (2009).
- Agari, M., C. Bauer, M. Bräuer, W. Hofmann, T. Jagla, K. T. Knöpfle, M. Pleier, K. Reeves, F. Sanchez, M. Schmelling, B. Schwingenheuer, F. Sciacca, C. van Eldik, M. Zavertyaev et al. (The HERA-B Collaboration): Production of the charmonium states  $\chi_{c1}$  and  $\chi_{c2}$  in proton nucleus interactions at  $\sqrt{s}=41.6$  GeV. In: *Physical Review D* **79**, 1, 1-18, Seq. No.: 012001 (2009).*
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernloehr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, O. Reimer, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Detection of very high energy radiation from HESS J1908+063 confirms the Milagro unidentified source MGRO J1908+06. In: *Astronomy & Astrophysics* **499**, 3, 723-728 (2009).*
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernloehr, C. Boisson, A. Bochow, V. Borrel, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Gohring, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb,*

- M. C. Medina, R. Moderski, L. A. G. Monard, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. de Ona Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. Van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Simultaneous multiwavelength observations of the second exceptional gamma-ray flare of PKS2155-304 in July 2006. In: *Astronomy & Astrophysics* **502**, 3, 749-770 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Gohring, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, G. Lamanna, I. J. Latham, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, J. Vink, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Discovery of high energy gamma-ray emission from Centaurus with HESS. In: *Astrophysical Journal Letters* **695**, 1, L40-L44 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Völk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Very high energy gamma-ray observations of the binary PSR B1259-63/SS2883 around the 2007 Periastron. In: *Astronomy & Astrophysics* **507**, 1, 389-396 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelmi, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Voelk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: HESS upper limit on the very high energy gamma-ray emission from the globular cluster 47 Tucanae. In: *Astronomy & Astrophysics* **499**, 1, 273-277 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Foerster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Hauser, M. Hauser, S. Heinz, G. Heinzelmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G.

- Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Voelk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Simultaneous Observations of PKS 2155-304 with HESS, Fermi, RXTE, and Atom: Spectral Energy Distributions and Variability in a Low State. In: *The Astrophysical Journal Letters* **696**, 2, L150-L155 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, L. Rolland, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Voelk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Spectrum and variability of the Galactic center VHE gamma-ray source HESS J1745-290. In: *Astronomy & Astrophysics* **503**, 3, 817-825 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, O. Reimer, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, D. Spanglfoer, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Voelk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Constraints on the multi-TeV particle population in the Coma galaxy cluster with HESS observations. In: *Astronomy & Astrophysics* **502**, 2, 437-443 (2009).
- Aharonian, F., A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlöhr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi,

- D. Keogh, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhllhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Probing the ATIC peak in the cosmic-ray electron spectrum with HESS. In: *Astronomy & Astrophysics* **508**, 2, 561-564 (2009).
- Aharonian, F., A. G. Akhperjanian, U. B. de Almeida, A. R. Bazer-Bachi, B. Behera, M. Beilicke, W. Benbow, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, R. Bühler, T. Bulik, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, B. Degrange, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, C. Hadjichristidis, D. Hauser, M. Hauser, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, I. J. Latham, M. Lemoine-Goumard, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, C. Masterson, D. Maurin, T. J. L. McComb, C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne, M. Ostrowski, M. Panter, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhllhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Discovery of Gamma-Ray emission from the shell-type supernova remnant RCW 86 with HESS. In: *Astrophysical Journal* **692**, 2, 1500-1505 (2009).
- Aharonian, F., A. G. Akhperjanian, U. B. De Almeida, A. R. Bazer-Bachi, B. Behera, M. Beilicke, W. Benbow, K. Bernlöhr, C. Boisson, V. Borrel, I. Braun, E. Brion, J. Brucker, R. Bühler, T. Bulik, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, R. Chaves, L. M. Chounet, A. C. Clapson, G. Coignet, R. Cornils, L. Costamante, M. Dalton, B. Degrange, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, C. Hadjichristidis, D. Hauser, M. Hauser, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, I. J. Latham, J. P. Lenain, T. Lohse, J. M. Martin, O. Martineau-Huynh, A. Marcowith, C. Masterson, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne,
- Marcowith, C. Masterson, D. Maurin, T. J. L. McComb, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, S. J. Nolan, S. Ohm, J. P. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne, M. Ostrowski, M. Panter, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhllhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, C. van Eldik, G. Vasileiadis, C. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: HESS observations of the prompt and afterglow phases of GRB 060602B. In: *Astrophysical Journal* **690**, 2, 1068-1073 (2009).
- Aharonian, F., A. G. Akhperjanian, U. B. de Almeida, A. R. Bazer-Bachi, B. Behera, W. Benbow, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, C. Hadjichristidis, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne, M. Ostrowski, M. Panter, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhllhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: A Search for a Dark Matter Annihilation Signal Toward the Canis Major Overdensity with H.E.S.S.. In: *Astrophysical Journal* **691**, 1, 175-181 (2009).
- Aharonian, F., A. G. Akhperjanian, U. B. de Almeida, A. R. Bazer-Bachi, B. Behera, W. Benbow, K. Bernlöhr, C. Boisson, A. Bochow, V. Borrel, I. Braun, E. Brion, J. Brucker, P. Brun, R. Bühler, T. Bulik, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, C. Hadjichristidis, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, I. Jung, K. Katarzynski, S. Kaufmann, E. Kendziorra, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, N. Komin, K. Kosack, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, J. M. Martin, O. Martineau-Huynh, A. Marcowith, D. Maurin, T. J. L. McComb, M. C. Medina, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektassov, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, J. L. Osborne,

- M. Ostrowski, M. Panter, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwemmer, A. Shalchi, J. L. Skilton, H. Sol, D. Spangler, L. Stawarz, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, C. van Eldik, G. Vasileiadis, C. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Voelk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: HESS observations of gamma-ray bursts in 2003-2007. In: *Astronomy & Astrophysics* **495**, 2, 505-512 (2009).
- Akhmedov, E. K. and A. Y. Smirnov: Paradoxes of neutrino oscillations. In: *Physics of Atomic Nuclei* **72**, 8, 1363-1381 (2009).
- Akhmedov, E., J. Kopp and M. Lindner: Comment on 'Time-energy uncertainty relations for neutrino oscillations and the Mossbauer neutrino experiment'. In: *Journal of Physics G: Nuclear and Particle Physics* **36**, 7, 1-5, Seq. No.: 078001 (2009).
- Al-Amri, M., G. X. Li, R. Tan and M. S. Zubairy: Sudden death and birth of entanglement in photonic crystals. In: *Physical Review A* **80**, 2, Seq. No.: 022314 (2009).
- Albright, C. H. and W. Rodejohann: Comparing trimaximal mixing and its variants with deviations from tri-bimaximal mixing. In: *The European Physical Journal C* **62**, 3, 599-608 (2009).
- Anisimov, A., Y. Bartocci and F. L. Bezrukov: Inflaton mass in the vMSM inflation. In: *Physical Letters B* **671**, 2, 211-215 (2009).
- Araudo, A. T., V. Bosch-Ramon and G. E. Romero: High-energy emission from jet-clump interactions in microquasars. In: *Astronomy & Astrophysics* **503**, 3, 673-681 (2009).
- Bamba, A., R. Yamazaki, K. Kohri, H. Matsumoto, S. Wagner, G. Pühlhofer and K. Kosack: X-ray Observation of Very High Energy Gamma-Ray Source, HESS J1745-303, with Suzaku. In: *Astrophysical Journal* **691**, 2, 1854-1861 (2009).
- Bandyopadhyay, A., S. Choubey, R. Gandhi, S. Goswami, B. L. Roberts, J. Bouchez, I. Antoniadis, J. Ellis, G. F. Giudice, T. Schwetz, S. Umasankar, G. Karagiorgi, A. Aguilar-Arevalo, J. M. Conrad, M. H. Shaevitz, S. Pascoli, S. Geer, J. E. Campagne, M. Rolinac, A. Blondel, M. Campanelli, J. Kopp, M. Lindner, J. Peltoniemi, P. J. Dornan, K. Long, T. Matsushita, C. Rogers, Y. Uchida, M. Dracos, K. Whisnant, D. Casper, M. C. Chen, B. Popov, J. Aysto, D. Marfatia, Y. Okada, H. Sugiyama, K. Jungmann, J. Lesgourgues, M. Zisman, M. A. Tortola, A. Friedland, S. Davidson, S. Antusch, C. Biggio, A. Donini, E. Fernandez-Martinez, B. Gavela, M. Maltoni, J. Lopez-Pavon, S. Rigolin, N. Mondal, V. Palladino, F. Filthaut, C. Albright, A. de Gouvea, Y. Kuno, Y. Nagashima, M. Mezzetto, S. Lola, P. Langacker, A. Baldini, H. Nunokawa, D. Meloni, M. Diaz, S. F. King, K. Zuber, A. G. Akeroyd, Y. Grossman, Y. Farzan, K. Tobe, M. Aoki, H. Murayama, N. Kitazawa, O. Yasuda, S. Petcov, A. Romanino, P. Chimenti, A. Vacchi, A. Y. Smirnov, E. Couce, J. J. Gomez-Cadenas, P. Hernandez, M. Sorel, J. W. F. Valle, P. F. Harrison, C. Lunardini, J. K. Nelson, V. Barger, L. Everett, P. Huber, W. Winter, W. Fetscher and A. van der Schaaf: Physics at a future Neutrino Factory and super-beam facility. In: *Reports on Progress in Physics* **72**, 10, Seq. No.: 106201 (2009).
- Barabanov, I., L. Bezrukov, E. Demidova, V. Gurentsov, S. Kianovsky, K. T. Knöpfle, V. Kornouhkov, B. Schwingenheuer and A. Vasenko: Shielding of the GERDA experiment against external gamma background. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **606**, 3, 790-794 (2009).
- Barillier-Pertuisel, X., O. Bohigas and H. A. Weidenmüller: Random-matrix approach to RPA equations. I. In: *Annals of Physics* **324**, 9, 1855-1874 (2009).
- Bauke, H. and C. H. Keitel: Canonical transforms and the efficient integration of quantum mechanical wave equations. In: *Physical Review E* **80**, 1, Seq. No.: 016706 (2009).
- Beck, D., K. Blaum, G. Bollen, P. Delahaye, S. George, C. Guénaut, F. Herfurth, A. Herlert, D. Lunney, L. Schweikhard and C. Yazidjian: Electric and magnetic field optimization procedure for Penning trap mass spectrometers. In: *Nuclear Instruments and Methods in Physics Research Section a: Accelerators, Spectrometers, Detectors and Associated Equipment* **598**, 2, 635-641 (2009).
- Beilmann, C., O. Postavaru, L. H. Arntzen, R. Ginzel, C. H. Keitel, V. Mackel, P. H. Mokler, M. C. Simon, H. Tawara, I. I. Tupitsyn, J. Ullrich, J. R. C. Crespo López-Urrutia and Z. Harman: Intershell trielectronic recombination with K-shell excitation in Kr30+. In: *Physical Review A* **80**, 5, Seq. No.: 050702 (2009).
- Benbow, W., F. Aharonian, K. Bernlöhr, A. Bochow, R. Bühler, R. C. G. Chaves, C. Deil, W. Domainko, K. Egberts, A. Förster, G. D. Hauser, G. Hermann, W. Hofmann, S. Hoppe, D. Horns, I. Jung, K. Kosack, D. Nekrassov, S. Ohm, E. D. Wilhelm, M. Panter, M. Raue, M. Renaud, F. Rieger, O. Tibolla, C. van Eldik, H. J. Voelk, F. Volpe, V. Bosch-Ramon et al. (The VERITAS Collaboration, the VLBA 43 GHz M87 Monitoring Team, the H.E.S.S. Collaboration and the MAGIC Collaboration): Radio Imaging of the Very-High-Energy gamma-Ray Emission Region in the Central Engine of a Radio Galaxy. In: *Science* **325**, 5939, 444-448 (2009).
- Benedetti, C., P. Londrillo, T. V. Liseykina, A. Macchi, A. Sgattoni and G. Turchetti: Ion acceleration by petawatt class laser pulses and pellet compression in a fast ignition scenario. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **606**, 1-2, 89-93 (2009).
- Berezhko, E. G., L. T. Ksenofontov and H. J. Völk: Cosmic ray acceleration parameters from multi-wavelength observations. The case of SN 1006. In: *Astronomy & Astrophysics* **505**, 1, 169-176 (2009).
- Berezhko, E. G., G. Puhlhofer and H. J. Völk: Theory of cosmic ray and gamma-ray production in the supernova remnant RX J0852.0-4622. In: *Astronomy & Astrophysics* **505**, 2, 641-654 (2009).
- Bezrukov, F., D. Gorbunov and M. Shaposhnikov: On initial conditions for the Hot Big Bang. In: *Journal of Cosmology and Astroparticle Physics* **06**, June 2009, 1-39, Seq. No.: 029 (2009).
- Bezrukov, F. L., A. Magnin and M. Shaposhnikov: Standard Model Higgs boson mass from inflation. In: *Physical Letters B* **675**, 1, 88-92 (2009).
- Bezrukov, F. and M. Shaposhnikov: Standard Model Higgs boson mass from inflation: Two loop analysis. In: *Journal of High Energy Physics* **2009**, 07, 1-24, Seq. No.: 089 (2009).
- Bezrukov, F. L. and Y. Burnier: Towards a solution of the strong CP problem by compact extra dimensions. In: *Physical Review D* **80**, 12, Seq. No.: 125004 (2009).
- Blanco-Covarrubias, A., J. Engelfried, U. Akgun, G. Alkhalov, J. Amaro-Reyes, A. G. Atamanchouk, A. S. Ayan, M. Y. Balatz, N. F. Bondar, P. S. Cooper, L. J. Dauwe, G. V. Davidenko, U. Dersch, A. G. Dolgolenko, G. B. Dzyubenko, R. Edelstein, L. Emediato, A. M. F. Endler, I. Eschrich, C. O. Escobar, N. Estrada, A. V. Evdokimov, I. S. Filimonov, A. Flores-Castillo, F. G. Garcia, V. L. Golovtsov, P. Gouffon, E. Gulmez, M. Iori, S. Y. Jun, M. Kaya, J. Kilmer, V. T. Kim, L. M. Kochenda, I. Konorov, A. P. Kozhevnikov, A. G. Krivshich, H. Kruger, M. A. Kubantsev, V. P. Kubarovsky, A. I. Kulyavtsev, N. P. Kuropatkin, V. F. Kurshetsov, A. Kushnirenko, J. Lach, L. G. Landsberg, I. Larin, E. M. Leikin, G. Lopez-Hinojosa, T. Lungov, V. P. Maleev, D. Mao, P. Mathew, M. Mattson, V. Matveev, E. McCliment,

- M. A. Moinester, V. V. Molchanov, A. Morelos, A. V. Nemitskin, P. V. Neoustrouev, C. Newsom, A. P. Nilov, S. B. Nurushev, A. Ocherashvili, Y. Onel, S. Ozkorucuklu, A. Penzo, S. V. Petrenko, M. Procaro, V. A. Prutsko, B. V. Razmyslovich, V. I. Rud, J. Russ, J. L. Sanchez-Lopez, J. Simon, A. I. Sitnikov, V. J. Smith, M. Srivastava, V. Steiner, V. Stepanov, L. Stutte, M. Svoiski, N. K. Terentyev, I. Torres, L. N. Uvarov, A. N. Vasiliev, D. V. Vavilov, E. Vazquez-Jauregui, V. S. Verebryusov, V. A. Victorov, V. E. Vishnyakov, A. A. Vorobyov, K. Vorwalter, J. You and R. Zukanovich-Funchal: Nuclear dependence of charm production. In: *European Physical Journal C* **64**, 4, 637-644 (2009).
- Blaum, K. and M. Block: Precision Penning trap mass measurements on exotic ions: status and perspectives. In: *Hyperfine Interactions* **194**, 1-3, 65-70 (2009).
- Blaum, K., H. Kracke, S. Kreim, A. Mooser, C. Mrozik, W. Quint, C. C. Rodegheri, B. Schabinger, S. Sturm, S. Ulmer, A. Wagner, J. Walz and G. Werth: g-factor experiments on simple systems in Penning traps. In: *Journal of Physics B* **42**, 15, 1-6, Seq. No.: 154021 (2009).
- Blaum, K., S. Nagy and G. Werth: High-accuracy Penning trap mass measurements with stored and cooled exotic ions. In: *Journal of Physics B* **42**, 15, 1-9, Seq. No.: 154015 (2009).
- Blum, A. and C. Hagedorn: The Cabibbo angle in a supersymmetric D-14 model. In: *Nuclear Physics B* **821**, 1-2, 327-353 (2009).
- Bordas, P., V. Bosch-Ramon, J. M. Paredes and M. Perucho: Non-thermal emission from microquasar/ISM interaction. In: *Astronomy & Astrophysics* **497**, 2, 325-334 (2009).
- Bosch-Ramon, V.: Studying the properties of the radio emitter in LS 5039. In: *Astronomy & Astrophysics* **493**, 3, 829-833 (2009).
- Bosch-Ramon, V. and D. Khangulyan: Understanding the very-high-energy emission from microquasars. In: *International Journal of Modern Physics D* **18**, 3, 347-387 (2009).
- Bostedt, C., H. N. Chapman, J. T. Costello, J. R. Crespo López-Urrutia, S. Düsterer, S. W. Epp, J. Feldhaus, A. Föhlisch, M. Meyer, T. Möller, R. Moshhammer, M. Richter, K. Sokolowski-Tinten, A. Sorokin, K. Tiedtke, J. Ullrich and W. Wurth: Experiments at FLASH. In: *Nuclear Instruments and Methods in Physics Research A* **601**, 1-2, 108-122 (2009).
- Bottino, A., N. Fornengo, V. Niro and S. Scopel: Investigating light neutralinos at neutrino telescopes. In: *Physical Review D* **80**, 9, 1-13, Seq. No.: 095019 (2009).
- Brandau, C., C. Kozhuharov, A. Müller, D. Bernhardt, S. Böhm, D. Boutin, F. J. Currell, C. Dimopoulou, B. Franzke, Z. Harman, J. D. Jentschura, C. H. Keitel, H. J. Kluge, Y. S. Kozhedub, R. Krücken, Y. A. Litvinov, F. Nolden, B. O'Rourke, R. Reuschl, S. Schippers, V. M. Shabaev, U. Spillmann, Z. Stachura, M. Steck, T. Stöhlker, I. I. Tupitsyn, D. F. Winters and A. Wolf: Isotope shifts in dielectronic recombination: From stable to in-flight-produced nuclei. In: *Journal of Physics: Conference Series* **194**, 1, Seq. No.: 012023 (2009).
- Breitenfeldt, M., G. Audi, D. Beck, K. Blaum, S. George, F. Herfurth, A. Herlert, A. Kellerbauer, H.-J. Kluge, M. Kowalska, D. Lunney, S. Naimi, D. Neidherr, H. Schatz, S. Schwarz and L. Schweikhard: Penning trap mass measurements of 99-109Cd with the ISOLTRAP mass spectrometer, and implications for the rp process. In: *Physical Review C* **80**, 3, 1-11, Seq. No.: 035805 (2009).
- Brenner, G., J. R. Crespo López-Urrutia, S. Bernitt, D. Fischer, R. Ginzl, K. Kubicek, V. Mäckel, P. H. Mokler, M. C. Simon and J. Ullrich: On the Transition Rate of the Fe x Red Coronal Line. In: *Astrophysical Journal* **703**, 1, 68-73 (2009).
- Budjas, D., A. M. Gangapshev, J. Gasparro, W. Hampel, M. Heisel, G. Heusser, M. Hult, A. A. Klimenko, V. V. Kuminov, M. Laubenstein, W. Maneschg, H. Simgen, A. A. Smolnikov, C. Tomei and S. I. Vasiliev: Gamma-ray spectrometry of ultra low levels of radioactivity within the material screening program for the GERDA experiment. In: *Applied Radiation and Isotopes* **67**, 5, 755-758 (2009).
- Budjas, D., M. B. Heider, O. Chkvoets, N. Khanbekov and S. Schönert: Pulse shape discrimination studies with a Broad-Energy Germanium detector for signal identification and background suppression in the GERDA double beta decay experiment. In: *Journal of Instrumentation* **4**, Seq. No.: P10007 (2009).
- Budjas, D., M. Heisel, W. Maneschg and H. Simgen: Optimisation of the MC-model of a p-type Ge-spectrometer for the purpose of efficiency determination. In: *Applied Radiation and Isotopes* **67**, 5, 706-710 (2009).
- Budjáš, D., M. Barnabé-Heider, O. Chkvoets, N. Khanbekov and S. Schönert: Pulse shape discrimination studies with a Broad-Energy Germanium detector for signal identification and background suppression in the GERDA double beta decay experiment. In: *Journal of Instrumentation* **4**, October 2009, 1-23, Seq. No.: 10007 (2009).
- Bunyatyan, A.: Factorisation issues in diffraction. In: *Nuclear Physics B - Proceedings Supplements* **191**, 221-230 (2009).
- Bychenkov, V. Y., S. M. Garina, G. I. Dudnikova, N. V. Zmitrenko, V. F. Kovalev and T. V. Liseikina: Numerical simulation of harmonics generation by ultrashort laser pulses. In: *Mathematical Models and Computer Simulations* **1**, 4, 503-513 (2009).
- Cakirli, R. B., R. F. Casten, R. Winkler, K. Blaum and M. Kowalska: Enhanced sensitivity of nuclear binding energies to collective structure. In: *Physical Review Letters* **102**, 8, 1-4, Seq. No.: 082501 (2009).
- Chantler, C. T., J. M. Laming, J. D. Silver, D. D. Dietrich, P. H. Mokler, E. C. Finch and S. D. Rosner: Hydrogenic Lamb shift in Ge31+ and the fine-structure Lamb shift. In: *Physical Review A* **80**, 2, 1-28, Seq. No.: 022508 (2009).
- Chen, L., Y. A. Litvinov, W. R. Plass, K. Beckert, F. Bosch, D. Boutin, L. Caceres, B. R. Cakirli, J. J. Carroll, R. F. Casten, R. S. Chakrawarthy, D. M. Cullen, B. Franzke, H. Geissel, J. Gerl, M. Gorska, G. A. Jones, A. Kishada, R. Knöbel, C. Kozhuharov, S. A. Litvinov, Z. Liu, S. Mandal, F. Montes, G. Münzenberg, F. Nolden, T. Ohtsubo, Z. Patyk, Z. Podolyak, R. Propri, S. Rigby, N. Saito, T. Saito, C. Scheidenberger, M. Shindo, M. Steck, P. Ugorowski, H. Weick, S. Williams, M. Winkler, H.-J. Wollersheim, T. Yamaguchi, P. Beller and P. M. Walker: Schottky mass measurement of the 208Hg isotope: implication for the proton-neutron interaction strength around doubly magic 208Pb. In: *Physical Review Letters* **102**, 12, 1-4, Seq. No.: 122503 (2009).
- Chernyakova, M., A. Neronov, F. Aharonian, Y. Uchiyama and T. Takahashi: X-ray observations of PSR B1259-63 near the 2007 periastron passage. In: *Monthly Notices of the Royal Astronomical Society* **397**, 4, 2123-2132 (2009).
- Chirila, C. C. and M. Lein: High-order harmonic generation in vibrating two-electron molecules. In: *Chemical Physics* **366**, 1-3, 54-57 (2009).
- Chirila, C. C. and M. Lein: Explanation for the smoothness of the phase in molecular high-order harmonic generation. In: *Physical Review A* **80**, 1, 1-5, Seq. No.: 013405 (2009).
- Choubey, S. and W. Rodejohann: Flavor composition of ultrahigh energy neutrinos at source and at neutrino telescopes. In: *Physical Review D* **80**, 11, 1-11, Seq. No.: 113006 (2009).
- Choubey, S., W. Rodejohann and P. Roy: Phenomenological consequences of four zero neutrino Yukawa textures. In: *Nuclear Physics B* **808**, 1-2, 272-291 (2009).
- Deil, C., W. Domainko, G. Hermann, A. C. Clapson, A. Förster, C. van Eldik and W. Hofmann: Capability of Cherenkov telescopes to observe ultra-fast optical flares. In: *Astroparticle Physics* **31**, 2, 156-162 (2009).

- Dietz, B., T. Friedrich, H. L. Harney, M. Miski-Oglu, A. Richter, F. Schafer, J. Verbaarschot and H. A. Weidenmüller: Induced Violation of Time-Reversal Invariance in the Regime of Weakly Overlapping Resonances. In: *Physical Review Letters* **103**, 6, 1-4, Seq. No.: 064101 (2009).
- Dikarev, V., O. Preu, S. Solanki, H. Krüger and A. Krivov: The local dust foregrounds in the microwave sky. I. thermal emission spectra. In: *Astrophysical Journal* **705**, 1, 670-682 (2009).
- Di Piazza, A. and K. Z. Hatsagortsyan: QED vacuum effects in intense laser fields. In: *European Physical Journal - Special Topics* **175**, 181-185 (2009).
- Di Piazza, A., K. Z. Hatsagortsyan and C. H. Keitel: Strong Signatures of Radiation Reaction below the Radiation-Dominated Regime. In: *Physical Review Letters* **102**, 25, Seq. No.: 254802 (2009).
- Di Piazza, A., E. Lötstedt, A. I. Milstein and C. H. Keitel: Barrier Control in Tunneling e(+)-e(-) Photoproduction. In: *Physical Review Letters* **103**, 17, Seq. No.: 170403 (2009).
- Dotzek, N., P. Groenemeijer, B. Feuerstein and A. M. Holzer: Overview of ESSL's severe convective storms research using the European Severe Weather Database ESWD. In: *Atmospheric Research* **93**, 1-3 Sp. Iss. Sp. Iss. SI, 575-586 (2009).
- Driver, S. P., P. Norberg, I. K. Baldry, S. P. Bamford, A. M. Hopkins, J. Liske, J. Loveday, J. A. Peacock, D. T. Hill, L. S. Kelvin, A. S. G. Robotham, N. J. G. Cross, H. R. Parkinson, M. Prescott, C. J. Conselice, L. Dunne, S. Broughs, H. Jones, R. G. Sharp, E. van Kampen, S. Oliver, I. G. Roseboom, J. Bland-Hawthorn, S. M. Croom, S. Ellis, E. Cameron, S. Cole, C. S. Frenk, W. J. Couch, W. G. Alister, R. Proctor, R. De Propis, I. F. Doyle, E. M. Edmondson, R. C. Nichol, D. Thomas, S. A. Eales, M. J. Jarvis, K. Kuijken, O. Lahav, B. F. Madore, M. Seibert, M. J. Meyer, L. Staveley-Smith, S. Philipps, C. C. Popescu, A. E. Sansom, W. J. Sutherland, R. J. Tuffs and S. J. Warren: GAMA: towards a physical understanding of galaxy formation. In: *Astronomy and Geophysics* **50**, 5, 12-19 (2009).
- Drury, L. O., F. A. Aharonian, D. Malyshev and S. Gabici: On the plasma temperature in supernova remnants with cosmic-ray modified shocks. In: *Astronomy & Astrophysics* **496**, 1, 1-6 (2009).
- Eerdeken, G., V. Sinha, N. Yassaa, P. P. Aatlo, H. Aufmhoff, F. Arnold, M. Kulmala and J. Williams: Springtime boreal VOCs: The role of monoterpenes in selected intense nucleation events (source inventory). In: *Geochimica et Cosmochimica Acta* **73**, 13 Suppl. Suppl. S, A319-A319 (2009).
- Eerdeken, G., N. Yassaa, V. Sinha, P. P. Aalto, H. Aufmhoff, F. Arnold, V. Fiedler, M. Kulmala and J. Williams: VOC measurements within a boreal forest during spring 2005: on the occurrence of elevated monoterpene concentrations during night time intense particle concentration events. In: *Atmospheric Chemistry and Physics* **9**, 21, 8331-8350 (2009).
- Ehlert, S. and M. P. Ulmer: The radial dependence of temperature and iron abundance Galaxy clusters from  $z=0.14$  to  $z=0.89$ . In: *Astronomy & Astrophysics* **503**, 1, 35-46 (2009).
- Eitel, G., M. Block, A. Czasch, M. Dworschak, S. George, O. Jagutzki, J. Ketaelaer, J. Ketter, S. Nagy, D. Rodriguez, C. Smorra and K. Blaum: Position-sensitive ion detection in precision Penning trap mass spectrometry. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **606**, 3, 475-483 (2009).
- Elomaa, V., G. K. Vorobjev, A. Kankainen, L. Batist, S. Eliseev, T. Eronen, J. Hakala, A. Jokinen, I. D. Moore, Y. N. Novikov, H. Penttilä, A. Popov, S. Rahman, J. Rissanen, A. Saastamoinen, H. Schatz, D. M. Seliverstov, C. Weber and J. Äystö: Quenching of the SnSbTe cycle in the rp process. In: *Physical Review Letters* **102**, 25, 1-4, Seq. No.: 252501 (2009).
- Eungwanichayapant, A. and F. Aharonian: Very high energy gamma rays from e(+/-) pair halos. In: *International Journal of Modern Physics D* **18**, 6, 911-927 (2009).
- Feruglio, F., C. Hagedorn, Y. Lin and L. Merlo: Lepton flavour violation in models with A(4) flavour symmetry. In: *Nuclear Physics B* **809**, 1-2, 218-243 (2009).
- Fiedler, V., F. Arnold, H. Schlager, A. Dornbrack, L. Pirjola and A. Stohl: East Asian SO<sub>2</sub> pollution plume over Europe - Part 2: Evolution and potential impact. In: *Atmospheric Chemistry and Physics* **9**, 14, 4729-4745 (2009).
- Fiedler, V., R. Nau, S. Ludmann, F. Arnold, H. Schlager and A. Stohl: East Asian SO<sub>2</sub> pollution plume over Europe - Part 1: Airborne trace gas measurements and source identification by particle dispersion model simulations. In: *Atmospheric Chemistry and Physics* **9**, 14, 4717-4728 (2009).
- Fischer, D., M. Schulz, K. Schneider, F. Ciappina, T. Kirchner, A. Kelka, S. Hagman, M. Grieser, K.-U. Kühnel, R. Moshhammer and J. Ullrich: Systematic analysis of double-ionization dynamics based on four-body Dalitz plots. In: *Physical Review A* **80**, 6, 1-8, Seq. No.: 062703 (2009).
- Flanagan, K. T., P. Vingerhoets, M. Avgoulea, J. Billowes, M. L. Bissell, K. Blaum, B. Cheal, M. De Rydt, V. N. Fedosseev, D. H. Forest, C. Geppert, U. Köster, M. Kowalska, J. Krämer, K. L. Kratz, A. Krieger, E. Mané, B. A. Marsh, T. Materna, L. Mathieu, P. L. Molkanov, R. Neugart, G. Neyens, W. Nörtershäuser, M. D. Seliverstov, O. Serot, M. Schug, M. A. Sjoedin, J. R. Stone, N. J. Stone, H. H. Stroke, G. Tungate, D. T. Yordanov and Y. M. Volkov: Nuclear spins and magnetic moments of <sup>71,73,75</sup>Cu: inversion of  $\pi 2p_{3/2}$  and  $\pi 1f_{5/2}$  levels in <sup>75</sup>Cu. In: *Physical Review Letters* **103**, 14, 1-4, Seq. No.: 142501 (2009).
- Fleischhaker, R. and J. Evers: Phase-controlled pulse propagation in media with cross coupling of electric and magnetic probe field component. In: *Physical Review A* **80**, 6, 1-9, Seq. No.: 063816 (2009).
- Foerster, D. and P. Koval: On the Kohn-Sham density response in a localized basis set. In: *The Journal of Chemical Physics* **133**, 4, 1-9, Seq. No.: 044103 (2009).
- Frisch, P. C., M. Bzowski, E. Grün, V. Izmodenov, H. Kruger, J. L. Linsky, D. J. McComas, E. Mobius, S. Redfield, N. Schwadron, R. Shelton, J. D. Slavin and B. E. Wood: The Galactic Environment of the Sun: Interstellar Material Inside and Outside of the Heliosphere. In: *Space Science Reviews* **146**, 1-4, 235-273 (2009).
- Fritzsche, S., N. M. Kabachnik, A. Surzhykov and T. Stöhlker: Breit interaction effects on the K alpha angular distribution following the dielectronic recombination of high-Z ions. In: *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms* **267**, 2, 257-259 (2009).
- Fukui, Y., N. Furukawa, T. M. Dame, J. R. Dawson, H. Yamamoto, G. P. Rowell, F. Aharonian, W. Hofmann, E. D. Wilhelmi, T. Minamidani, A. Kawamura, N. Mizuno, T. Onishi, A. Mizuno and S. Nagataki: A Peculiar Jet and Arc of Molecular Gas toward the Rich and Young Stellar Cluster Westerlund 2 and a TeV Gamma Ray Source. In: *Publications of the Astronomical Society of Japan* **61**, 4, L23-L27 (2009).
- Fukuzawa, H., X.-J. Liu, G. Prümper, M. Okunishi, K. Shimada, K. Ueda, T. Harada, M. Toyoda, M. Yanagihara, M. Yamamoto, H. Iwayama, K. Nagaya, M. Yao, K. Motomura, N. Saito, A. Rudenko, J. Ullrich, L. Foucar, A. Czasch, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Dead-time-free ion momentum spectroscopy of multiple ionization of Xe clusters irradiated by euv free-electron laser pulses. In: *Physical Review A* **79**, 3, 1-4, Seq. No.: 031201(R) (2009).
- Gabici, S., F. A. Aharonian and S. Casanova: Broad-band non-thermal emission from molecular clouds illuminated by cosmic rays from nearby supernova remnants. In: *Monthly*

- Notices of the Royal Astronomical Society **396**, 3, 1629-1639 (2009).
- Garny, M., A. Hohenegger, A. Kartavtsev and M. Lindner: Systematic approach to leptogenesis in nonequilibrium QFT: Vertex contribution to the CP-violating parameter. In: Physical Review D **80**, 12, 1-28, Seq. No.: 125027 (2009).
- Garny, M. and M. M. Müller: Kadanoff-Baym equations with non-Gaussian initial conditions: The equilibrium limit. In: Physical Review D **80**, 8, 1-28, Seq. No.: 085011 (2009).
- Giard, M., E. Pointecouteau, L. Montier and E. Simmat: The dust content of clusters of galaxies. In: Advances in Space Research **44**, 9, 1047-1050 (2009).
- Goldstein, M., R. Berkovits, Y. Gefen and H. A. Weidenmüller: Transmission phase of quantum dots: Testing the role of population switching. In: Physical Review B **79**, 12, Seq. No.: 125307 (2009).
- Gonta, D. and S. Fritzsche: Control of entanglement and two-qubit quantum gates with atoms crossing a detuned optical cavity. In: Journal of Physics B-Atomic Molecular and Optical Physics **42**, 14, Seq. No.: 145508 (2009).
- Gonta, D., T. Radtke and S. Fritzsche: Generation of two-dimensional cluster states by using high-finesse bimodal cavities. In: Physical Review A **79**, 6, 1-11, Seq. No.: 062319 (2009).
- Gopal, R., K. Simeonidis, R. Moshhammer, T. Ergler, M. Dürr, M. Kurka, K.-U. Kühnel, S. Tschuch, C. D. Schröter, D. Bauer, J. Ullrich, A. Rudenko, O. Herrwerth, T. Uphues, M. Schultze, E. Goulielmakis, M. Uiberacker, M. Lezius and M. F. Kling: Three-Dimensional Momentum Imaging of Electron Wave Packet Interference in Few-Cycle Laser Pulses. In: Physical Review Letters **103**, 5, 1-4, Seq. No.: 053001 (2009).
- Goswami, S., S. T. Petcov, S. Ray and W. Rodejohann: Large  $|U_{e3}|$  and tribimaximal mixing. In: Physical Review D **80**, 5, 1-14, Seq. No.: 053013 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Search for High-Energy Muon Neutrinos from the "Naked-Eye" GRB 080319B with the IceCube Neutrino Telescope. In: Astrophysical Journal **701**, 2, 1721-1731 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Extending the Search for Neutrino Point Sources with IceCube above the Horizon. In: Physical Review Letters **103**, 22, Seq. No.: 221102 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): First Neutrino Point-Source results from the 22 String Icecube detector. In: Astrophysical Journal Letters **701**, 1, L47-L51 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. In: Physical Review Letters **102**, 20, Seq. No.: 201302 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Determination of the atmospheric neutrino flux and searches for new physics with AMANDA-II. In: Physical Review D **79**, 10, Seq. No.: 102005 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): The IceCube data acquisition system: Signal capture, digitization, and timestamping. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **601**, 3, 294-316 (2009).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Search for point sources of high energy neutrinos with final data from AMANDA-II. In: Physical Review D **79**, 6, Seq. No.: 062001 (2009).
- Grün, E., R. Srama, N. Altobelli, K. Altwegg, J. Carpenter, L. Colangeli, K. H. Glassmeier, S. Helfert, H. Henkel, M. Horanyi, A. Jackel, S. Kempf, M. Landgraf, N. McBride, G. Moragas-Klostermeyer, P. Palumbo, H. Scholten, A. Srowig, Z. Sternovsky and X. Vo: DuneXpress. In: Experimental Astronomy **23**, 3, 981-999 (2009).
- Grunewald, D., E. M. Ilgenfritz and H. J. Pirner: Gluon structure function of a color dipole in the light-cone limit of lattice QCD. In: Physical Review D **80**, 7, Seq. No.: 074502 (2009).
- Hagedorn, C., M. A. Schmidt and A. Y. Smirnov: Lepton mixing and cancellation of the Dirac mass hierarchy in SO(10) GUTs with flavor symmetries T-7 and Sigma(81). In: Physical Review D **79**, 3, Seq. No.: 036002 (2009).
- Hampel, W., F. X. Hartmann, G. Heusser, J. Kiko, T. Kirsten, W. Maneschg, E. Resconi, H. Simgen, G. Zuzel and the Borexino Collaboration: The Borexino detector at the Laboratori Nazionali del Gran Sasso. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **600**, 3, 568-593 (2009).
- Hampel, W., F. X. Hartmann, G. Heusser, J. Kiko, T. Kirsten, W. Maneschg, E. Resconi, H. Simgen, G. Zuzel and the Borexino Collaboration: The liquid handling systems for the Borexino solar neutrino detector. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **609**, 1, 58-78 (2009).
- Harasimowicz, J. and C. P. Welsch: Beam instrumentation for the future ultra-low energy electrostatic storage. In: Hyperfine Interactions **194**, 1-3, 177-181 (2009).
- Hartmann, F. X.: Double Chooz and the search for short range anti-neutrino oscillations. In: Journal of Physics Conference Series **173**, Carolina International Symposium on Neutrino Physics, 12023-12023 (2009).
- Heider, A. B., C. Cattadori, O. Chkvorets, A. Di Vacri, K. Gusev, S. Schönert and A. Shirchenko: Performance of bare high-purity germanium detectors in liquid argon for the GERDA experiment. In: IEEE Nuclear Science Symposium - Conference Record, 2788-2791 (2009).
- Hetzheim, H. G. and C. H. Keitel: Ionization Dynamics versus Laser Intensity in Laser-Driven Multiply Charged Ions. In: Physical Review Letters **102**, 8, Seq. No.: 083003 (2009).
- Hillier, J., S. Sestak, S. F. Green, F. Postberg, R. Srama and M. Trieloff: The production of platinum-coated silicate nanoparticle aggregates for use in hypervelocity impact experiments. In: Planetary and Space Science **57**, 14-15, 2081-2086 (2009).
- Hinton, J. A. and W. Hofmann: Teraelectronvolt astronomy. In: Annual Review of Astronomy and Astrophysics **47**, 523-565 (2009).
- Hinton, J. A., J. L. Skilton, S. Funk, J. Brucker, F. A. Aharonian, G. Dubus, A. Fiasson, Y. Gallant, W. Hofmann, A. Marcowith and O. Reimer: HESS J0632+057: A new gamma-ray binary?. In: Astrophysical Journal Letters **690**, 2, L101-L104 (2009).
- Hofmann, W. and C. van Eldik: Ein neues Fenster zum Kosmos. In: Sterne und Weltraum **2009**, 3, 38-47 (2009).
- Hohenegger, A.: Solving the homogeneous Boltzmann equation with arbitrary scattering kernel. In: Physical Review D **79**, 6, 1-17, Seq. No.: 063502 (2009).
- Huang, P., X. T. Xie, X. Y. Lu, J. H. Li and X. X. Yang: Carrier-envelope-phase-dependent effects of high-order harmonic generation in a strongly driven two-level atom. In: Physical Review A **79**, 4, Seq. No.: 043806 (2009).
- Huber, P., M. Lindner, T. Schwetz and W. Winter: First hint for CP violation in neutrino oscillations from upcoming

- superbeam and reactor experiments. In: *Journal of High Energy Physics* **2009**, 11, 1-29, Seq. No.: 044 (2009).
- Ipp, A., C. H. Keitel and J. Evers: Yoctosecond Photon Pulses from Quark-Gluon Plasmas. In: *Physical Review Letters* **103**, 15, Seq. No.: 152301 (2009).
- Iwayama, H., K. Nagaya, M. Yao, H. Fukuzawa, X.-J. Liu, G. Prümper, M. Okunishi, K. Shimada, K. Ueda, T. Harada, M. Toyoda, M. Yanagihara, M. Yamamoto, K. Motomura, N. Saito, A. Rudenko, J. Ullrich, L. Foucar, A. Czasch, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Frustration of direct photoionization of Ar clusters in intense extreme ultraviolet pulses from a free electron laser. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **42**, 13, 1-5, Seq. No.: 134019 (2009).
- Jentschura, U. D.: Virtual resonant states in two-photon decay processes: Lower-order terms, subtractions, and physical interpretations. In: *Physical Review A* **79**, 2, Seq. No.: 022510 (2009).
- Jentschura, U. D., P. J. Mohr, J. N. Tan and B. J. Wundt: Fundamental constants and tests of theory in Rydberg states of hydrogenlike ions. In: *Canadian Journal of Physics* **87**, 7, 757-762 (2009).
- Jentschura, U. D., A. Surzhykov and J. Zinn-Justin: Unified Treatment of Even and Odd Anharmonic Oscillators of Arbitrary Degree. In: *Physical Review Letters* **102**, 1, Seq. No.: 011601 (2009).
- Jiang, Y. H., A. Rudenko, M. Kurka, K. U. Kühnel, T. Ergler, L. Foucar, M. Schöffler, S. Schössler, T. Havermeier, M. Smolarski, K. Cole, R. Dörner, S. Düsterer, R. Treusch, M. Gensch, C. D. Schröter, R. Moshhammer and J. Ullrich: Few-Photon Multiple Ionization of N<sub>2</sub> by Extreme Ultraviolet Free-Electron Laser Radiation. In: *Physical Review Letters* **102**, 12, 1-4, Seq. No.: 123002 (2009).
- Jones, G. H., C. S. Arridge, A. J. Coates, G. R. Lewis, S. Kanani, A. Wellbrock, D. T. Young, F. J. Crary, R. L. Tokar, R. J. Wilson, T. W. Hill, R. E. Johnson, D. G. Mitchell, J. Schmidt, S. Kempf, U. Beckmann, C. T. Russell, Y. D. Jia, M. K. Dougherty, J. H. Waite and B. A. Magee: Fine jet structure of electrically charged grains in Enceladus' plume. In: *Geophysical Research Letters* **36**, Seq. No.: L16204 (2009).
- Joshiyura, A. S. and W. Rodejohann: Scaling in the neutrino mass matrix,  $\mu$ - $\tau$  symmetry and the see-saw mechanism. In: *Physics Letters B* **678**, 3, 276-282 (2009).
- Kapferer, W., T. Kronberger, D. Breitschwerdt, S. Schindler, E. van Kampen, S. Kimeswenger, W. Domainko, M. Mair and M. Ruffert: Metal enrichment of the intra-cluster medium by thermally and cosmic-ray driven galactic winds An analytical prescription for galactic outflows. In: *Astronomy & Astrophysics* **504**, 3, 719-726 (2009).
- Kelkar, N. D., H. M. Castaneda and M. Nowakowski: Quantum time scales in alpha tunneling. In: *Europhysics Letters* **85**, 2, Seq. No.: 20006 (2009).
- Kellerbauer, A., C. Canali, A. Fischer and U. Warring: Ultracold antiprotons by indirect laser cooling. In: *Hyperfine Interactions* **194**, 1-3, 77-83 (2009).
- Ketelaer, J., K. Blaum, M. Block, K. Eberhardt, M. Eibach, R. Ferrer, S. George, F. Herfurth, J. Ketter, S. Nagy, J. Repp, L. Schweikhard, C. Smorra, S. Sturm and S. Ulmer: Recent developments in ion detection techniques for Penning trap mass spectrometry at TRIGA-TRAP. In: *European Physical Journal A* **42**, 3, 311-317 (2009).
- Khan, S., S. Goswami and W. Rodejohann: Minimal textures in seesaw mass matrices and their low and high energy phenomenology. In: *Physics Letters B* **680**, 3, 255-262 (2009).
- Kiffner, M. and T. N. Dey: Dynamical control of pulse propagation in electromagnetically induced transparency. In: *Physical Review A* **79**, 2, Seq. No.: 023829 (2009).
- Kirk, J. G., A. R. Bell and I. Arka: Pair production in counter-propagating laser beams. In: *Plasma Physics and Controlled Fusion* **51**, 8, 1-21, Seq. No.: 085008 (2009).
- Kopp, J.: Mössbauer neutrinos in quantum mechanics and quantum field theory. In: *Journal of High Energy Physics JHEP06*, 1-16, Seq. No.: 049 (2009).
- Kopp, J., V. Niro, T. Schwetz-Mangold and J. Zupan: DAMA/LIBRA data and leptonically interacting dark matter. In: *Physical Review D* **80**, 8, 1-20, Seq. No.: 083502 (2009).
- Kowalska, M., S. Naimi, J. Agramunt, A. Algora, G. Audi, D. Beck, B. Blank, K. Blaum, C. Böhm, M. Breitenfeldt, E. Estevez, L. M. Fraile, S. George, F. Herfurth, A. Herlert, A. Kellerbauer, D. Lunney, E. Minaya-Ramirez, D. Neidherr, B. Olaizola, K. Riisager, M. Rosenbusch, B. Rubio, S. Schwarz, L. Schweikhard and U. Warring: Preparing a journey to the east of 208Pb with ISOLTRAP: Isobaric purification at A = 209 and new masses for 211-213Fr and 211Ra. In: *European Physical Journal A* **42**, 3, 351-359 (2009).
- Krämer, J., K. Blaum, M. De Rydt, K. T. Flanagan, C. Geppert, M. Kowalska, P. Lievens, R. Neugart, G. Neyens, W. Nörtershäuser, H. H. Stroke, P. Vingerhoets and D. T. Yordanov: Nuclear ground-state spin and magnetic moment of 21Mg. In: *Physics Letter B* **678**, 5, 465-469 (2009).
- Kremer, M., B. Fischer, B. Feuerstein, V. L. B. de Jesus, V. Sharma, C. Hofrichter, A. Rudenko, U. Thumm, C. D. Schroter, R. Moshhammer and J. Ullrich: Electron Localization in Molecular Fragmentation of H-2 by Carrier-Envelope Phase Stabilized Laser Pulses. In: *Physical Review Letters* **103**, 21, 1-4, Seq. No.: 213003 (2009).
- Krüger, H. and E. Grün: Interstellar Dust Inside and Outside the Heliosphere. In: *Space Science Reviews* **143**, 1-4, 347-356 (2009).
- Krüger, H., D. P. Hamilton, R. Moissl and E. Grün: Galileo in-situ dust measurements in Jupiter's gossamer rings. In: *Icarus* **203**, 1, 198-213 (2009).
- Kubicek, K., H. Bruhns, J. Braun, J. R. C. Lopez-Urrutia and J. Ullrich: Two-loop QED contributions tests with mid-Z He-like ions. In: *Journal of Physics Conference Series* **163**, Seq. No.: 012007 (2009).
- Kurka, M., A. Rudenko, L. Foucar, K. U. Kühnel, Y. H. Jiang, T. Ergler, T. Havermeier, M. Smolarski, S. Schössler, K. Cole, M. Schöffler, R. Dörner, M. Gensch, S. Düsterer, R. Treusch, S. Fritzsche, A. N. Grum-Grzhimailo, E. V. Gryzlova, N. M. Kabachnik, C. D. Schröter, R. Moshhammer and J. Ullrich: Two-photon double ionization of Ne by free-electron laser radiation: a kinematically complete experiment. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **42**, 14, 1-5, Seq. No.: 141002 (2009).
- Lahde, T., T. Ronkko, A. Virtanen, T. J. Schuck, L. Pirjola, K. Hameri, M. Kulmala, F. Arnold, D. Rothe and J. Keskinen: Heavy Duty Diesel Engine Exhaust Aerosol Particle and Ion Measurements. In: *Environmental Science & Technology* **43**, 1, 163-168 (2009).
- Laubenstein, M. and G. Heusser: Cosmogenic radionuclides in metals as indicator for sea level exposure history. In: *Applied Radiation and Isotopes* **67**, 5, 750-754 (2009).
- Lestinsky, M., N. R. Badnell, D. Bernhardt, M. Grieser, J. Hoffmann, D. Lukic, A. Müller, D. A. Orlov, R. Repnow, D. W. Savin, E. W. Schmidt, M. Schnell, S. Schippers, A. Wolf and D. Yu: Electron-ion recombination of Fe x forming Fe ix and of Fe xi forming Fe x: Laboratory measurements and theoretical calculations. In: *The Astrophysical Journal* **698**, 1, 648-659 (2009).
- Liang, G. Y., T. M. Baumann, J. R. Crespo López-Urrutia, S. W. Epp, H. Tawara, A. Gonchar, P. H. Mokler, G. Zhao and J. Ullrich: Extreme-Ultraviolet Spectroscopy of Fe VI-Fe XV and its Diagnostic Application for Electron Beam Ion Trap Plasmas. In: *Astrophysical Journal* **696**, 2, 2275-2289 (2009).

- Liang, G. Y., J. R. Crespo López-Urrutia, T. M. Baumann, S. W. Epp, A. Gonchar, A. Lapiere, P. H. Mokler, M. C. Simon, H. Tawara, V. Mäkel, K. Yao, G. Zhao, Y. Zou and J. Ullrich: Experimental Investigations of Ion Charge Distributions, Effective Electron Densities, and Electron-Ion Cloud Overlap in Electron Beam Ion Trap Plasma Using Extreme-Ultraviolet Spectroscopy. In: *Astrophysical Journal* **702**, 2, 838-850 (2009).
- Li, G. X., J. Evers and C. H. Keitel: Spontaneous emission interference in negative-refractive-index waveguides. In: *Physical Review B* **80**, 4, Seq. No.: 045102 (2009).
- Lindroos, M., B. McElrath, C. Orme and T. Schwetz-Mangold: Measuring neutrino mass with radioactive ions in a storage ring. In: *The European Physical Journal C* **64**, 4, 549-560 (2009).
- Liu, C. P., M. C. Kohler, K. Z. Hatsagortsyan, C. Müller and C. H. Keitel: Laser-guided relativistic quantum dynamics. In: *New Journal of Physics* **11**, Seq. No.: 105045 (2009).
- Liu, S. S., U. Glasmacher, Z. Q. Xu, U. Weber, G. Wagner, R. Jonckheere and X. L. Yin: Thermotectonic history of Sulu UHP metamorphic rock: Apatite fission track constraints from MH and PP2 of CCSD. In: *Acta Petrologica Sinica* **25**, 7, 1612-1618 (2009).
- Liu, S. S., U. Weber, U. A. Glasmacher, Z. Q. Xu and G. A. Wagner: Fission track analysis and thermotectonic history of the main borehole of the Chinese Continental Scientific Drilling project. In: *Tectonophysics* **475**, 2 Sp. Iss. Sp. Iss. SI, 318-326 (2009).
- Liu, X.-J., H. Fukuzawa, G. Prümper, M. Okunishi, K. Shimada, K. Ueda, K. Motomura, N. Saito, H. Iwayama, K. Nagaya, M. Yao, A. Rudenko, J. Ullrich, L. Foucar, A. Czasch, H. Schmidt-Böcking, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Cold-target recoil-ion momentum spectroscopy for diagnostics of high harmonics of the extreme-ultraviolet free-electron laser light source at SPring-8. In: *Review of Scientific Instruments* **80**, 5, 1-4, Seq. No.: 053105 (2009).
- Liu, Y. Q., Q. L. Dong, X. Y. Peng, Z. Jin and J. Zhang: Soft x-ray emission, angular distribution of hot electrons, and absorption studies of argon clusters in intense laser pulses. In: *Physics of Plasmas* **16**, 4, Seq. No.: 043301 (2009).
- Lötstedt, E. and U. D. Jentschura: Correlated two-photon emission by transitions of Dirac-Volkov states in intense laser fields: QED predictions. In: *Physical Review A* **80**, 5, Seq. No.: 053419 (2009).
- Lötstedt, E. and U. D. Jentschura: Nonperturbative Treatment of Double Compton Backscattering in Intense Laser Fields. In: *Physical Review Letters* **103**, 11, Seq. No.: 110404 (2009).
- Lötstedt, E. and U. D. Jentschura: Recursive algorithm for arrays of generalized Bessel functions: Numerical access to Dirac-Volkov solutions. In: *Physical Review E* **79**, 2, Seq. No.: 026707 (2009).
- Lötstedt, E., U. D. Jentschura and C. H. Keitel: Coulomb-field-induced conversion of a high-energy photon into a pair assisted by a counterpropagating laser beam. In: *New Journal of Physics* **11**, Seq. No.: 013054 (2009).
- Ludhova, L., G. Bellini, J. Benziger, S. Bonetti, M. B. Avanzini, B. Caccianiga, L. Cadonati, F. Calaprice, C. Carraro, A. Chavarria, F. Dalmoki-Veress, D. D'Angelo, H. de Kerret, A. Derbin, A. Etenko, K. Fomenko, D. Franco, C. Galbiati, S. Gazzana, M. Giammarch, M. Goeger-Neff, A. Goretti, C. Grieb, S. Hardy, A. Ianni, A. Ianni, M. Joyce, V. Kobychyev, G. Korga, D. Kryn, M. Laubenstein, M. Leung, T. Lewke, E. Litvinovich, B. Loer, P. Lombardi, I. Machulin, S. Manecki, W. Maneschg, G. Manuzio, F. Masetti, K. McCarty, Q. Meindl, E. Meroni, L. Miramonti, M. Misiaszek, D. Montanari, V. Muratova, L. Oberauer, M. Obolensky, F. Ortica, M. Pallavicini, L. Papp, L. Perasso, S. Perasso, A. Pocar, R. S. Raghavan, G. Ranucci, A. Razeto, P. Risso, A. Romani, D. Rountree, A. Sabelnikov, R. Saldanha, C. Salvo, S. Schönert, H. Simgen, M. Skorokhvatov, O. Smirnov, A. Sotnikov, S. Sukhotin, Y. Suvorov, R. Tartaglia, G. Testera, D. Vignaud, R. B. Vogelaar, F. von Feilitzsch, M. Wojcik, M. Wurm, O. Zaimidoroga, S. Zavatarelli and G. Zuzel: 200 days of Borexino data. In: *Nuclear Physics B - Proceedings Supplements* **188**, 90-95 (2009).
- Macchi, A., A. Bigongiari and T. V. Liseikina: Highlights from particle-in-cell simulations of superintense laser-plasma interactions. In: *Nuovo Cimento della Societa Italiana di Fisica C- Colloquia on Physics* **32**, 2, 153-156 (2009).
- Macchi, A., T. V. Liseikina, S. Tuveri and S. Veghini: Theory and simulation of ion acceleration with circularly polarized laser pulses. In: *Comptes Rendus Physique* **10**, 2-3, 207-215 (2009).
- Maccione, L., A. M. Taylor, D. M. Mattingly and S. Liberati: Planck-scale Lorentz violation constrained by Ultra-High-Energy Cosmic Rays. In: *Journal of Cosmology and Astroparticle Physics* **04**, 1-20, Seq. No.: 022 (2009).
- Macovei, M. A. and X. T. Xie: Two-photon cooling of a nonlinear quantum oscillator. In: *Optics Communications* **282**, 19, 3930-3933 (2009).
- Macovei, M., Y. P. Niu, S. Q. Gong and C. H. Keitel: Correlated atomic population fluctuations via the environmental reservoir. In: *Journal of Modern Optics* **56**, 6, 704-709 (2009).
- Mané, E., J. Billowes, K. Blaum, P. Campbell, B. Cheal, P. Delahaye, K. T. Flanagan, D. H. Forest, H. Franberg, C. Geppert, T. Giles, A. Jokinen, M. Kowalska, R. Neugart, G. Neyens, W. Nörtershäuser, I. Podadera, G. Tungate, P. Vingerhoets and D. T. Yordanov: An ion cooler-buncher for high-sensitivity collinear laser spectroscopy at ISOLDE. In: *European Physical Journal A* **42**, 3, 503-507 (2009).
- Maneschg, W., A. Merle and W. Rodejohann: Statistical analysis of future neutrino mass experiments including neutrinoless double beta decay. In: *Europhysics Letters* **85**, 5, Seq. No.: 51002 (2009).
- Martinez-Sansigre, A. and A. M. Taylor: The cosmological consequence of an obscured AGN population on the radiation efficiency. In: *Astrophysical Journal* **692**, 2, 964-972 (2009).
- Merle, A.: Why a splitting in the final state cannot explain the "GSI oscillations" measured at the GSI Experimental Storage Ring. In: *Physical Review C* **80**, 5, 1-9, Seq. No.: 054616 (2009).
- Misra, D., H. T. Schmidt, M. Gudmundsson, D. Fischer, N. Haag, H. A. B. Johansson, A. Kallberg, B. Najjari, P. Reinherd, R. Schuch, M. Schoffler, A. Simonsson, A. B. Voitko and H. Cederquist: Two-Center Double-Capture Interference in Fast He<sup>2+</sup>+H<sub>2</sub> Collisions. In: *Physical Review Letters* **102**, 15, 1-4, Seq. No.: 153201 (2009).
- Motomura, K., L. Foucar, A. Czasch, N. Saito, O. Jagutzki, H. Schmidt-Böcking, R. Dörner, X.-J. Liu, H. Fukuzawa, G. Prümper, K. Ueda, M. Okunishi, K. Shimada, T. Harada, M. Toyoda, M. Yanagihara, M. Yamamoto, H. Iwayama, K. Nagaya, M. Yao, A. Rudenko, J. Ullrich, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Multi-coincidence ion detection system for EUV-FEL fragmentation experiments at SPring-8. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **606**, 3, 770-773 (2009).
- Müller, C.: Nonlinear Bethe-Heitler pair creation with attosecond laser pulses at the LHC. In: *Physics Letters B* **672**, 1, 56-60 (2009).
- Müller, C. and C. H. Keitel: Antimatter: Abundant positron production. In: *Nature Photonics* **3**, 245-246 (2009).
- Müller, C., C. Deneke, M. Ruf, G. R. Mocken, K. Z. Hatsagortsyan and C. H. Keitel: Lepton pair production in high-frequency

- laser fields. In: *Laser Physics* **19**, 4, 791-796 (2009).
- Müller, C., K. Z. Hatsagortsyan, M. Ruf, S. J. Müller, H. G. Hertzheim, M. C. Köhler and C. H. Keitel: Relativistic nonperturbative above-threshold phenomena in strong laser fields. In: *Laser Physics* **19**, 8, 1743-1752 (2009).
- Müller, C., A. Shahbaz, T. J. Bürvenich, K. Z. Hatsagortsyan and C. H. Keitel: Exotic atoms in superintense laser fields : applications in atomic, nuclear, and particle physics. In: *European Physical Journal - Special Topics* **175**, 187-190 (2009).
- Müller, C., A. B. Voitkov and B. Najjari: Relativistic electron-ion recombination in the presence of an intense laser field. In: *Journal of Physics B* **42**, 22, Seq. No.: 221001 (2009).
- Müller, S. J. and C. Müller: Few-photon electron-positron pair creation by relativistic muon impact on intense laser beams. In: *Physical Review D* **80**, 5, Seq. No.: 053014 (2009).
- Mukha, I., N. K. Timofeyuk, K. Sümmerner, L. Acosta, M. A. G. Alvarez, E. Casarejos, A. Chatillon, D. Cortina-Gil, J. M. Espino, A. Fomichev, J. E. García-Ramos, H. Geissel, J. Gómez-Camacho, L. Grigorenko, J. Hofmann, O. Kiselev, A. Korshennikov, N. Kurz, Y. Litvinov, I. Martel, C. Nociforo, W. Ott, M. Pfützner, C. Rodríguez-Tajes, E. Roeckl, M. Stanoiu, H. Weick and P. J. Woods: Observation of narrow states in nuclei beyond the proton drip line: 15F and 16Ne. In: *Physical Review C* **79**, 6, 1-5, Seq. No.: 061301 (2009).
- Najjari, B., A. B. Voitkov, A. Artemyev and A. Surzhykov: Simultaneous electron capture and bound-free pair production in relativistic collisions of heavy nuclei with atoms. In: *Physical Review A* **80**, 1, Seq. No.: 012701 (2009).
- Neidherr, D., G. Audi, D. Beck, K. Blaum, C. Böhm, M. Breitenfeldt, R. B. Cakirli, R. F. Casten, S. George, F. Herfurth, A. Herlert, A. Kellerbauer, M. Kowalska, D. Lunney, E. Minaya-Ramirez, S. Naimi, E. Noah, L. Penescu, M. Rosenbusch, S. Schwarz, L. Schweikhard and T. Stora: Discovery of 229Rn and the structure of the heaviest Rn and Ra isotopes from Penning-Trap mass measurements. In: *Physical Review Letters* **102**, 11, 1-5, Seq. No.: 112501 (2009).
- Neidherr, D., B. R. Cakirli, G. Audi, D. Beck, K. Blaum, C. Böhm, M. Breitenfeldt, R. F. Casten, S. George, F. Herfurth, A. Herlert, A. Kellerbauer, M. Kowalska, D. Lunney, E. Minaya-Ramirez, S. Naimi, M. Rosenbusch, S. Schwarz and L. Schweikhard: High-precision Penning-trap mass measurements of heavy xenon isotopes for nuclear structure studies. In: *Physical Review C* **80**, 04, 1-7, Seq. No.: 044323 (2009).
- Niro, V., A. Bottino, N. Fornengo and S. Scopel: Investigating light neutralinos at neutrino telescopes. In: *Physical Review D* **80**, 9, Seq. No.: 095019 (2009).
- Nörtershäuser, W., D. Tiedemann, M. Záková, Z. Andjelkovic, K. Blaum, M. L. Bissell, R. Cazan, G. W. F. Drake, C. Geppert, M. Kowalska, J. Krämer, A. Krieger, R. Neugart, R. Sánchez, F. Schmidt-Kaler, Z.-C. Yan, D. T. Yordanov and C. Zimmermann: Nuclear charge radii of 79,10Be and the one-neutron halo nucleus 11Be. In: *Physical Review Letters* **102**, 6, 1-4, Seq. No.: 062503 (2009).
- Novotny, C., B. Bernhardt, D. Bing, G. Ewald, C. Geppert, G. Gwinner, G. Huber, S. Karpuk, H.-J. Kluge, T. Kühl, W. Nörtershäuser, S. Reinhardt, G. Saathoff, D. Schwalm, T. Stöhlker and A. Wolf: Towards a precision test of time dilation at high velocity. In: *Canadian Journal of Physics* **87**, 7, 749-756 (2009).
- Novotny, C., G. Huber, S. Karpuk, S. Reinhardt, D. Bing, D. Schwalm, A. Wolf, B. Bernhardt, T. W. Hänsch, R. Holzwarth, G. Saathoff, T. Udem, W. Nörtershäuser, G. Ewald, C. Geppert, T. Kühl, T. Stöhlker and G. Gwinner: Sub-Doppler laser spectroscopy on relativistic beams and tests of Lorentz invariance. In: *Physical Review A* **80**, 2, 1-5, Seq. No.: 022107 (2009).
- Ohira, Y., B. Reville, J. G. Kirk and F. Takahara: Two-Dimensional Particle-In-Cell Simulations of the Nonresonant, Cosmic-Ray-Driven Instability in Supernova Remnant Shocks. In: *Astrophysical Journal* **698**, 1, 445-450 (2009).
- Ohlsson, T., T. Schwetz-Mangold and H. Zhang: Non-standard neutrino interactions in the Zee-Babu model. In: *Physics Letters B* **681**, 3, 269-275 (2009).
- Ohm, S., C. van Eldik and K. Egberts: gamma/hadron separation in very-high-energy gamma-ray astronomy using a multivariate analysis method. In: *Astroparticle Physics* **31**, 5, 383-391 (2009).
- Orlov, D. A., C. Krantz, A. Wolf, A. S. Jaroshevich, S. N. Kosolobov, H. E. Scheibler and A. S. Terekhov: Long term operation of high quantum efficiency GaAs(Cs,O) photocathodes using multiple recleaning by atomic hydrogen. In: *Journal of Applied Physics* **106**, 1-7, Seq. No.: 054907 (2009).
- Osmanov, Z. and F. Rieger: On particle acceleration and very high energy  $\gamma$ -ray emission in Crab-like pulsars. In: *Astronomy and Astrophysics* **502**, 1, 15-20 (2009).
- O'Sullivan, S., B. Reville and A. Taylor: Stochastic particle acceleration in the lobes of giant radio galaxies. In: *Monthly Notices of the Royal Astronomical Society* **400**, 1, 248-257 (2009).
- Pálffy, A., C. H. Keitel and J. Evers: Single-Photon Entanglement in the keV Regime via Coherent Control of Nuclear Forward Scattering. In: *Physical Review Letters* **103**, 1, Seq. No.: 017401 (2009).
- Paredes, J. M., J. Marti, C. H. Ishwara-Chandra, J. R. Sanchez-Sutil, A. J. Munoz-Arjonilla, J. Moldon, M. Peracaula, P. L. Luque-Escamilla, V. Zabalza, V. Bosch-Ramon, P. Bordas, G. E. Romero and M. Ribo: Radio continuum and near-infrared study of the MGRO J2019+37 region. In: *Astronomy & Astrophysics* **507**, 1, 241-250 (2009).
- Pedersen, H. B., S. Altevogt, B. Jordon-Thaden, O. Heber, L. Lammich, M. L. Rappaport, D. Schwalm, J. Ullrich, D. Zajfman, R. Treusch, N. Guerassimova, M. Martins and A. Wolf: Neutral and charged photofragment coincidence imaging with soft x rays on molecular ion beams: Breakup of H3O+ at 13.5 nm. In: *Physical Review A* **80**, 1-16, Seq. No.: 012707 (2009).
- Petri, J.: High-energy pulses and phase-resolved spectra by inverse Compton emission in the pulsar striped wind Application to Geminga. In: *Astronomy & Astrophysics* **503**, 1, 13-18 (2009).
- Pinegar, D. B., K. Blaum, T. P. Biesiadzinski, S. L. Zafonte and R. S. J. Van Dyck: Stable voltage source for Penning trap experiments. In: *Review of Scientific Instruments* **80**, 6, 1-8, Seq. No.: 064701 (2009).
- Pirner, H. J. and B. Galow: Equivalence of the AdS-metric and the QCD running coupling. In: *Physics Letters B* **679**, 1, 51-55 (2009).
- Pirner, H. J., B. Galow and O. Schlaudt: An approach towards a constituent quark model on the light cone. In: *Nuclear Physics A* **819**, 135-149 (2009).
- Pluhar, Z. and H. A. Weidenmüller: Spectral fluctuation properties of constrained unitary ensembles of Gaussian-distributed random matrices. In: *Journal of Physics A-Mathematical and Theoretical* **42**, 15, Seq. No.: 155203 (2009).
- Popruzhenko, S. B., V. D. Mur, V. S. Popov and D. Bauer: Multiphoton ionization of atoms and ions by high-intensity X-ray lasers. In: *Journal of Experimental and Theoretical Physics* **108**, 6, 947-962 (2009).
- Postberg, F., S. Kempf, D. Rost, T. Stephan, R. Srama, M. Tieloff, A. Mockler and M. Goerlich: Discriminating contamination from particle components in spectra of Cassini's dust detector CDA. In: *Planetary and Space Science* **57**, 12, 1359-

- 1374 (2009).
- Postberg, F., S. Kempf, J. Schmidt, N. Brilliantov, A. Beinsen, B. Abel, U. Buck and R. Srama: Sodium salts in E-ring ice grains from an ocean below the surface of Enceladus. In: *Nature* **459**, 7250, 1098-1101 (2009).
- Postberg, F., M. Tieloff, R. Srama, J. K. Hillier, Z. Gainsforth, A. J. Westphal, S. Bugiel, E. Grün, S. Armes, A. Kearsley, T. Tyliczszak and W. H. Schwarz: High Velocity van de Graaf Shots of Mineral Dust : Application to in Situ Space Missions. In: *Meteoritics & Planetary Science* **44**, Suppl. S, A170-A170 (2009).
- Povh, B. et al. (HERA Collaboration): Multi-leptons with high transverse momentum at HERA. In: *Journal of High Energy Physics*, **10**, Seq. No.: 013 (2009).
- Povh, B. et al. (HERA Collaboration): A precision measurement of the inclusive ep scattering cross section at HERA. In: *European Physical Journal C* **64**, 4, 561-587 (2009).
- Povh, B. et al. (HERA Collaboration): Search for excited quarks in ep collisions at HERA. In: *Physics Letters B* **678**, 4, 335-343 (2009).
- Povh, B. et al. (HERA Collaboration): Measurement of diffractive scattering of photons with large momentum transfer at HERA. In: *Physics Letters B* **672**, 3, 219-226 (2009).
- Povh, B. et al. (HERA Collaboration): Study of charm fragmentation into D (\* +/-) mesons in deep-inelastic scattering at HERA. In: *European Physical Journal C* **59**, 3, 589-606 (2009).
- Povh, B. et al. (HERA Collaboration): Strangeness production at low Q(2) in deep-inelastic ep scattering at HERA. In: *European Physical Journal C* **61**, 2, 185-205 (2009).
- Povh, B. et al. (HERA Collaboration): Measurement of the inclusive ep scattering cross section at low Q (2) and x at HERA. In: *European Physical Journal C* **63**, 4, 625-678 (2009).
- Povh, B. et al. (HERA Collaboration): Inclusive photoproduction of rho(0), K\*(0) and phi mesons at HERA H1 Collaboration. In: *Physics Letters B* **673**, 2, 119-126 (2009).
- Povh, B. et al. (HERA Collaboration): Events with isolated leptons and missing transverse momentum and measurement of W production at HERA. In: *European Physical Journal C* **64**, 2, 251-271 (2009).
- Povh, B. et al. (HERA Collaboration): A general search for new phenomena at HERA. In: *Physics Letters B* **674**, 4-5, 257-268 (2009).
- Povh, B. et al. (HERA Collaboration): Search for single top quark production at HERA. In: *Physics Letters B* **678**, 5, 450-458 (2009).
- Povh, B. et al. (HERA Collaboration): Observation of the hadronic final state charge asymmetry in high Q(2) deep-inelastic scattering at HERA. In: *Physics Letters B* **681**, 2, 125-133 (2009).
- Povh, B. et al. (HERA Collaboration): Deeply virtual Compton scattering and its beam charge asymmetry in e(+/-)p collisions at HERA. In: *Physics Letters B* **681**, 5, 391-399 (2009).
- Putignano, M., K.-U. Kühnel, C.-D. Schröter and C. P. Welsch: A fast, low perturbation ionization beam profile monitor based on a gas-jet curtain for the ultra low energy storage ring. In: *Hyperfine Interactions* **194**, 1-3, 189-193 (2009).
- Qamar, S., J. Evers and M. S. Zubairy: Atom microscopy via two-photon spontaneous emission spectroscopy. In: *Physical Review A* **79**, 4, Seq. No.: 043814 (2009).
- Quinn, K., P. A. Wilson, C. A. Cecchetti, B. Ramakrishna, L. Romagnani, G. Sarri, L. Lancia, J. Fuchs, A. Pipahl, T. Toncian, O. Willi, R. J. Clarke, D. Neely, M. Notley, P. Gallegos, D. C. Carroll, M. N. Quinn, X. H. Yuan, P. McKenna, T. V. Liseykina, A. Macchi and M. Borghesi: Laser-Driven Ultrafast Field Propagation on Solid Surfaces. In: *Physical Review Letters* **102**, 19, Seq. No.: 194801 (2009).
- Raue, M.: The extragalactic background light : lower versus upper limits. In: *International Journal of Modern Physics D* **18**, 10, 1633-1637 (2009).
- Raue, M., T. Kneiske and D. Mazin: First stars and the extragalactic background light: how recent gamma-ray observations constrain the early universe. In: *Astronomy & Astrophysics* **498**, 1, 25-35 (2009).
- Resconi, E.: Status and prospects of the IceCube neutrino telescope. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **602**, 1, 7-13 (2009).
- Resconi, E., D. Franco, A. Gross, L. Costamante and E. Flaccomio: The classification of flaring states of blazars. In: *Astronomy & Astrophysics* **502**, 2, 499-504 (2009).
- Reville, B., J. G. Kirk and P. Duffy: Steady-State Solutions in Nonlinear Diffusive Shock Acceleration. In: *Astrophysical Journal* **694**, 2, 951-958 (2009).
- Rieger, F. M. and F. A. Aharonian: Centaurus A as TeV gamma-ray and possible UHE cosmic-ray source. In: *Astronomy & Astrophysics* **506**, 3, L41-L44 (2009).
- Rodegheri, C. C., K. Blaum, H. Kracke, S. Kreim, A. Mooser, C. Mrozik, W. Quint, S. Ulmer and J. Walz: Developments of the direct determination of the g-factor of a single proton in a Penning trap. In: *Hyperfine Interactions* **194**, 1-3, 93-98 (2009).
- Rodejohann, W.: On non-unitary lepton mixing and neutrino mass observables. In: *Physics Letters B* **684**, 1, 40-47 (2009).
- Rodejohann, W.: Non-unitary lepton mixing matrix, leptogenesis and low-energy CP violation. In: *Europhysics Letters* **88**, 5, 1-6, Seq. No.: 51001 (2009).
- Rodejohann, W.: Unified parametrization for quark and lepton mixing angles. In: *Physics Letters B* **671**, 2, 267-271 (2009).
- Rothstein, I., T. Schwetz and J. Zupan: Phenomenology of dark matter annihilation into a long-lived intermediate state. In: *Journal of Cosmology and Astroparticle Physics JCAP07*, 07, 1-23, Seq. No.: 018 (2009).
- Ruf, M., H. Bauke and C. H. Keitel: A real space split operator method for the Klein-Gordon equation. In: *Journal of Computational Physics* **228**, 24, 9092-9106 (2009).
- Ruf, M., G. R. Mocken, C. Müller, K. Z. Hatsagortsyan and C. H. Keitel: Pair Production in Laser Fields Oscillating in Space and Time. In: *Physical Review Letters* **102**, 8, Seq. No.: 080402 (2009).
- Ruggenthaler, M. and D. Bauer: Local Hartree-exchange and correlation potential defined by local force equations. In: *Physical Review A* **80**, 5, Seq. No.: 052502 (2009).
- Ruggenthaler, M. and D. Bauer: Rabi Oscillations and Few-Level Approximations in Time-Dependent Density Functional Theory. In: *Physical Review Letters* **102**, 23, Seq. No.: 233001 (2009).
- Ruggenthaler, M., M. Penz and D. Bauer: On the existence of effective potentials in time-dependent density functional theory. In: *Journal of Physics A* **42**, 42, Seq. No.: 425207 (2009).
- Rykoff, E. S., F. Aharonian, C. W. Akerlof, M. C. B. Ashley, S. D. Barthelmy, H. A. Flewelling, N. Gehrels, E. Gogus, T. Guver, U. Kiziloglu, H. A. Krimm, T. A. McKay, M. Ozel, A. Phillips, R. M. Quimby, G. Rowell, W. Rujopakarn, B. E. Schaefer, D. A. Smith, W. T. Vestrand, J. C. Wheeler, J. Wren, F. Yuan and S. A. Yost: Looking Into the Fireball: ROTSE-III and Swift Observations of Early Gamma-ray Burst Afterglows. In:

- Astrophysical Journal **702**, 1, 489-505 (2009).
- Schmid, P., K. Kühnel, A. Papash and C. P. Welsch: Preliminary design studies of an extraction scheme of the UR. In: Hyperfine Interactions **194**, 1-3, 183-187 (2009).
- Schönert, S., T. K. Gaisser, E. Resconi and O. Schulz: Vetoing atmospheric neutrinos in a high energy neutrino telescope. In: Physical Review D **79**, 4, Seq. No.: 043009 (2009).
- Schulz, M., M. F. Ciappina, T. Kirchner, D. Fischer, R. Moshhammer and J. Ullrich: Role of elastic projectile-electron scattering in double ionization of helium by fast proton impact. In: Physical Review A **79**, 4, 1-7, Seq. No.: 042708 (2009).
- Schweikhard, L., D. Neidherr and K. Blaum: Neues Radon-Isotop entdeckt. In: Physik in unserer Zeit **40**, 4, 175-175 (2009).
- Shafir, D., S. Novotny, H. Buhr, S. Altevogt, A. Faure, M. Grieser, A. G. Harvey, O. Heber, J. Hoffmann, H. Kreckel, L. Lammich, I. Nevo, H. B. Pedersen, H. Rubinstein, I. F. Schneider, D. Schwalm, J. Tennyson, A. Wolf and D. Zajfman: Rotational cooling of HD<sup>+</sup> molecular ions by superelastic collision with electrons. In: Physical Review Letters **102**, 22, 1-4, Seq. No.: 223202 (2009).
- Shahbaz, A., C. Müller, T. J. Bürvenich and C. H. Keitel: Laser-induced nonresonant nuclear excitation in muonic atoms. In: Nuclear Physics A **821**, 106-117 (2009).
- Shevelko, V. P., D. Kato, M. Y. Song, H. Tawara, I. Y. Tolstikhina and J. S. Yoon: One-electron capture and target-ionization in He<sup>+</sup>-neutral-atom collisions. In: Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms **267**, 20, 3395-3402 (2009).
- Shevelko, V. P., M. S. Litsarev, M. Y. Song, H. Tawara and J. S. Yoon: Electron loss of fast many-electron ions colliding with neutral atoms: possible scaling rules for the total cross sections. In: Journal of Physics B-Atomic Molecular and Optical Physics **42**, 6, 1-6, Seq. No.: 065202 (2009).
- Simgen, H. and G. Zuzel: Analysis of the <sup>222</sup>Rn concentration in argon and a purification technique for gaseous and liquid argon. In: Applied Radiation and Isotopes **67**, 5, 922-925 (2009).
- Skilton, J. L., M. Pandey-Pommier, J. A. Hinton, C. C. Cheung, F. A. Aharonian, J. Brucker, G. Dubus, A. Fiasson, S. Funk, Y. Gallant, A. Marcowith and O. Reimer: The radio counterpart of the likely TeV binary HESSJ0632+057. In: Monthly Notices of the Royal Astronomical Society **399**, 1, 317-322 (2009).
- Smorra, C., K. Blaum, K. Eberhardt, M. Eibach, J. Ketelaer, J. Ketter, K. Knuth and S. Nagy: A carbon-cluster laser ion source for TRIGA-TRAP. In: Journal of Physics B **42**, 15, 1-6, Seq. No.: 154028 (2009).
- Song, M. Y., M. S. Litsarev, V. P. Shevelko, H. Tawara and J. S. Yoon: Single- and multiple-electron loss cross-sections for fast heavy ions colliding with neutrals: Semi-classical calculations. In: Nuclear Instruments & Methods in Physics Research Section B-Beam Interactions with Materials and Atoms **267**, 14, 2369-2375 (2009).
- Sorokin, A. and F. Arnold: Analysis of experiments on ion-induced nucleation and aerosol formation in the presence of UV light and ionizing radiation. In: Atmospheric Environment **43**, 24, 3799-3807 (2009).
- Srama, R., T. Stephan, E. Grün, N. Pailer, A. Kearsley, A. Graps, R. Laufer, P. Ehrenfreund, N. Altobelli, K. Altwegg, S. Auer, J. Baggaley, M. J. Burchell, J. Carpenter, L. Colangeli, F. Esposito, S. F. Green, H. Henkel, M. Horanyi, A. Jackel, S. Kempf, N. McBride, G. Moragas-Klostermeyer, H. Kruger, P. Palumbo, A. Srowig, M. Trieloff, P. Tsou, Z. Sternovsky, O. Zeile and H. P. Roser: Sample return of interstellar matter (SARIM). In: Experimental Astronomy **23**, 1, 303-328 (2009).
- Srama, R., W. Woitwode, F. Postberg, S. P. Armes, S. Fujii, D. Dupin, J. Ormond-Prout, Z. Sternovsky, S. Kempf, G. Moragas-Klostermeyer, A. Mocker and E. Grün: Mass spectrometry of hyper-velocity impacts of organic micrograins. In: Rapid Communications in Mass Spectrometry **23**, 24, 3895-3906 (2009).
- Surzhykov, A., T. Radtke, P. Indelicato and S. Fritzsche: Photon polarization in the two-photon decay of heavy hydrogen-like ions. In: European Physical Journal - Special Topics **169**, 29-34 (2009).
- Surzhykov, A., T. Stöhlker and S. Fritzsche: Fine-structure effects on the polarization of K alpha(1) radiation from heavy, highly-charged ions. In: Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms **267**, 2, 251-253 (2009).
- Takahashi, T., T. Kishishita, Y. Uchiyama, T. Tanaka, K. Yamaoka, D. Khangulyan, F. A. Aharonian, V. Bosch-Ramon and J. A. Hinton: Study of the Spectral and Temporal Characteristics of X-Ray Emission of the Gamma-Ray Binary LS 5039 with Suzaku. In: Astrophysical Journal **697**, 1, 592-600 (2009).
- Takechi, S., T. Miyachi, M. Fujii, N. Hasebe, K. Nogami, H. Ohashi, S. Sasaki, H. Shibata, T. Iwai, E. Grün, R. Srama and N. Okada: Estimating the impact parameters of cosmic dust particles using a piezoelectric lead zirconate titanate detector. In: Journal of Atmospheric and Solar-Terrestrial Physics **71**, 2, 191-193 (2009).
- Takechi, S., K. Nogami, T. Miyachi, M. Fujii, N. Hasebe, T. Iwai, S. Sasaki, H. Ohashi, H. Shibata, E. Grün, R. Srama and N. Okada: Laboratory calibration measurements of a piezoelectric lead zirconate titanate cosmic dust detector at low velocities. In: Advances in Space Research **43**, 6, 905-909 (2009).
- Takechi, S., T. Onishi, S. Minami, T. Miyachi, M. Fujii, N. Hasebe, K. Mori, K. Nogami, H. Ohashi, S. Sasaki, H. Shibata, T. Iwai, E. Grün, R. Srama and N. Okada: Characteristics of piezoelectric lead zirconate titanate multilayered detector bombarded with hypervelocity iron particles. In: Advances in Space Research **43**, 3, 455-459 (2009).
- Taylor, A. M. and F. A. Aharonian: Spectral shape and photon fraction as signatures of the Greisen-Zatsepin-Kuzmin cutoff. In: Physical Review D **79**, 8, Seq. No.: 083010 (2009).
- Taylor, A., J. A. Hinton, P. Blasi and M. Ave: Identifying Nearby Accelerators of Ultrahigh Energy Cosmic Rays Using Ultrahigh Energy (and Very High Energy) Photons. In: Physical Review Letters **103**, 5, 1-4, Seq. No.: 051102 (2009).
- Tibolla, O. et al (Fermi Collaboration): The on-orbit calibration of the Fermi Large Area Telescope. In: Astroparticle Physics **32**, 3-4, 193-219 (2009).
- Tibolla, O. et al (Fermi Collaboration): Detection of 16 Gamma-Ray Pulsars Through Blind Frequency Searches Using the Fermi LAT. In: Science **325**, 5942, 840-844 (2009).
- Tibolla, O. et al (Fermi Collaboration): Fermi/Large Area telescope bright gamma-ray source list. In: Astrophysical Journal, Supplement Series **183**, 1, 46-66 (2009).
- Tibolla, O. et al (Fermi Collaboration): Measurement of the Cosmic Ray e<sup>(+)</sup>e<sup>(-)</sup> Spectrum from 20 GeV to 1 TeV with the Fermi Large Area Telescope. In: Physical Review Letters **102**, 18, Seq. No.: 181101 (2009).
- Tibolla, O. et al (Fermi Collaboration): Fermi/Large Area Telescope Discovery of Gamma-Ray Emission from a Relativistic Jet in the Narrow-Line Quasar PMN J0948+0022. In: Astrophysical Journal **699**, 2, 976-984 (2009).
- Tibolla, O. et al (Fermi Collaboration): Multiwavelength monitoring of the enigmatic narrow-line Seyfert 1 PMN J0948+0022 in 2009 March-July. In: Astrophysical Journal **707**, 1, 727-737 (2009).
- Tibolla, O. et al (Fermi Collaboration): Fermi Lat discovery of extended gamma-ray emission in the direction of

- supernova remnant W51C. In: *Astrophysical Journal Letters* **706**, 1, L1-L6 (2009).
- Tibolla, O. et al (*Fermi Collaboration*): Radio-Loud Narrow-Line Seyfert 1 as a New Class of Gamma-Ray Active Galactic Nuclei. In: *Astrophysical Journal Letters* **707**, 2, L142-L147 (2009).
- Tibolla, O. et al (*Fermi Collaboration*): Fermi/Large Area Telescope Discovery of Gamma-Ray Emission from the Flat-Spectrum Radio Quasar PKS 1454–354. In: *Astrophysical Journal* **697**, 1, 934-941 (2009).
- Toker, Y., N. Altstein, O. Aviv, M. L. Rappaport, O. Heber, D. Schwalm, D. Strasser and D. Zajfman: The kick-out mass selection technique for ions stored in an Electrostatic Ion Beam Trap. In: *Journal of Instrumentation* **4**, Seq. No.: P09001 (2009).
- Träbert, E., J. Hoffmann, C. Krantz, A. Wolf, Y. Ishikawa and J. A. Santana: Atomic lifetime measurements on forbidden transitions of Al-, Si-, P- and S-like ions at a heavy-ion storage ring. In: *Journal of Physics B* **42**, 2, 1-9, Seq. No.: 025002 (2009).
- Trowitzsch, J., A. Pavlov and W. Gassler: LINC-NIRVANA Observation Preparation Software: Design and Perspective. In: *Astronomical Society of the Pacific Conference Series* **411**, 518-522 (2009).
- Ubieta-Diaz, M., D. Rodriguez, S. Lukic, S. Nagy, S. Stahl and K. Blaum: A broad-band FT-ICR Penning trap system for KATRIN. In: *International Journal of Mass Spectrometry* **288**, 1-3, 1-5 (2009).
- Ulmer, S., H. Kracke, K. Blaum, S. Kreim, A. Mooser, W. Quint, C. C. Rodegheri and J. Walz: The quality factor of a superconducting rf resonator in a magnetic field. In: *Review of Scientific Instruments* **80**, 12, 1-8, Seq. No.: 123302 (2009).
- Underwood, T. E. and R. Zwicky: Electroweak precision data and the Lee-Wick standard model. In: *Physical Review D - Particles, Fields, Gravitation and Cosmology* **79**, 3, 1-19, Seq. No.: 035016 (2009).
- Van de Walle, J., F. Aksouh, T. Behrens, V. Bildstein, A. Blazhev, J. Cederkall, E. Clement, T. E. Cocolios, T. Davinson, P. Delahaye, J. Eberth, A. Ekstrom, D. V. Fedorov, V. N. Fedosseev, L. M. Fraile, S. Franchoo, R. Gernhauser, G. Georgiev, D. Habs, K. Heyde, G. Huber, M. Huysse, F. Ibrahim, O. Ivanov, J. Iwanicki, J. Jolie, O. Kester, U. Koster, T. Kroll, R. Krucken, M. Lauer, A. F. Lisetskiy, R. Lutter, B. A. Marsh, P. Mayet, O. Niedermaier, M. Pantea, R. Raabe, P. Reiter, M. Sawicka, H. Scheit, G. Schrieder, D. Schwalm, M. D. Seliverstov, T. Sieber, G. Sletten, N. Smirnova, M. Stanoiu, I. Stefanescu, J. C. Thomas, J. J. Valiente-Dobon, P. Van Duppen, D. Verney, D. Voulot, N. Warr, D. Weisshaar, F. Wenander, B. H. Wolf and M. Zielinska: Low-energy Coulomb excitation of neutron-rich zinc isotopes. In: *Physical Review C* **79**, 1, Seq. No.: 014309 (2009).
- Vannoni, G., S. Gabici and F. A. Aharonian: Diffusive shock acceleration in radiation-dominated environments. In: *Astronomy & Astrophysics* **497**, 1, 17-26 (2009).
- Venter, C., O. C. De Jager and A. C. Clapson: Prediction of gamma-ray emission from globular cluster millisecond pulsars above 100 MeV. In: *Astrophysical Journal Letters* **696**, 1, L52-L55 (2009).
- Völk, H. and K. Bernlöhr: Imaging very high energy gamma-ray telescopes. In: *Experimental Astronomy* **25**, 1-3, 173-191 (2009).
- Voitkiv, A. B.: Electron transfer in fast atomic collisions in the presence of an x-ray laser. In: *Physical Review A* **80**, 5, 1-5, Seq. No.: 052707 (2009).
- Voitkiv, A. B. and B. Najjari: Projectile-target core interaction in single ionization of helium by 100-MeV/u C<sup>6+</sup> and 1-GeV/u U<sup>92+</sup> ions. In: *Physical Review A* **79**, 2, 1-6, Seq. No.: 022709 (2009).
- Voitkiv, A. B., B. Najjari and J. Ullrich: Inelastic Collisions of Relativistic Electrons with Atomic Targets in a Laser Field. In: *Physical Review Letters* **103**, 19, 1-4, Seq. No.: 193201 (2009).
- Voss, H. for the LHCb Collaboration: LHCb commissioning and readiness for first data. In: *High Energy Physics - Experiment*, arXiv **2009**, 1-4, Seq. No.: arXiv:0906.1526v1 (2009).
- Wan, J. J., C. Z. Dong, X. B. Ding, X. W. Ma, J. Rzakiewicz, T. Stohlker and S. Fritzsche: Radiative electron capture and subsequent radiative decay in collisions of U<sup>89+</sup> ions with N<sup>-2</sup>. In: *Physical Review A* **79**, 2, 1-8, Seq. No.: 022707 (2009).
- Warring, U., M. Amoretti, C. Canali, A. Fischer, R. Heyne, J. O. Meier, C. Morhard and A. Kellerbauer: High-Resolution Laser Spectroscopy on the Negative Osmium Ion. In: *Physical Review Letters* **102**, 4, Seq. No.: 043001 (2009).
- Weidenmüller, H. A. and G. E. Mitchell: Random matrices and chaos in nuclear physics: Nuclear structure. In: *Reviews of Modern Physics* **81**, 2, 539-589 (2009).
- Welsch, C. P., J. Harasimowicz, K. U. Kühnel, A. Papash, M. Putignano, P. Schmid and J. Ullrich: Present status of the USR project. In: *Hyperfine Interactions* **194**, 1-3, 137-143 (2009).
- Wenz, A. N., T. Lompe, T. B. Ottenstein, F. Serwane, G. Zürn and S. Jochim: Universal trimer in a three-component Fermi gas. In: *Physical Review A* **80**, 4, Seq. No.: 040702 (2009).
- Winckler, N., H. Geissel, Y. Litvinov, K. Beckert, F. Bosch, D. Boutin, C. Brandau, L. Chen, C. Dimopoulou, H. G. Essel, B. Fabian, T. Faestermann, A. Fragner, E. Haettner, S. Hess, P. Kienle, R. Knöbel, C. Kozhurarov, S. A. Litvinov, M. Mazzocco, F. Montes, G. Münzenberg, C. Nociforo, F. Nolden, Z. Patyk, W. R. Plaf, A. Prochazka, R. Reda, R. Reuschl, C. Scheidenberger, M. Steck, T. Stöhlker, S. Y. Torilov, M. Trassinelli, B. Sun, H. Weick and M. Winkler: Orbital electron capture decay of hydrogen- and helium-like 142Pm ions. In: *Physics Letters B* **679**, 1, 36-40 (2009).
- Wittenbrink, J., B. Lehmann, M. Wiedenbeck, A. Wallianos, A. Dietrich and C. Palacios: Boron isotope composition of melt inclusions from porphyry systems of the Central Andes: a reconnaissance study. In: *Terra Nova* **21**, 2, 111-118 (2009).
- Wundt, B. J. and U. D. Jentschura: Relativistic (Z alpha)<sup>2</sup> corrections and leading quantum electrodynamic corrections to the two-photon decay rate of ionic states. In: *Physical Review A* **80**, 2, Seq. No.: 022505 (2009).
- Xia, K. Y. and J. Evers: Ground State Cooling of a Nanomechanical Resonator in the Nonresolved Regime via Quantum Interference. In: *Physical Review Letters* **103**, 22, Seq. No.: 227203 (2009).
- Xia, K. Y., M. Macovei, J. Evers and C. H. Keitel: Robust coherent preparation of entangled states of two coupled flux qubits via dynamic control of the transition frequencies. In: *Physical Review B* **79**, 2, Seq. No.: 024519 (2009).
- Xie, X. T., M. Macovei, M. Kiffner and C. H. Keitel: Probing quantum superposition states with few-cycle laser pulses. In: *Journal of the Optical Society of America B -Optical Physics* **26**, 10, 1912-1917 (2009).
- Yuan, F., E. S. Rykoff, C. W. Akerlof, F. Aharonian, M. C. B. Ashley, S. D. Barthelmy, N. Gehrels, E. Göğüç, T. Güver, D. Horns, Ü. Kiziloglu, H. A. Krimm, T. A. McKay, M. Özel, A. Phillips, R. M. Quimby, W. Rujopakarn, B. E. Schaefer, H. F. Swan, W. T. Vestrand, J. C. Wheeler and J. Wren: Early Optical Observations Of GRBs With ROTSE-III. In: *Bulletin of the American Astronomical Society* **41**, 442-442 (2009).
- Zhu, G., M. Schuricke, J. Steinmann, J. Albrecht, I. Ben-Itzhak, T. J. M. Zouros, J. Colgan, M. S. Pindzola and A. Dorn: Controlling Two-Electron Threshold Dynamics in Double Photoionization of Lithium by Initial-State Preparation. In:

Physical Review Letters **103**, 10, 1-4, Seq. No.: 103008 (2009).

Zuzel, G. and H. Simgen: High sensitivity radon emanation measurements. In: Applied Radiation and Isotopes **67**, 5, 889-893 (2009).

## Books and Inbooks

Aharonian, F. A., W. Hofmann, F. Rieger (Eds.): High energy gamma-ray astronomy: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy. (High energy gamma-ray astronomy, 2008-07-07 to 2008-07-11, Heidelberg (Germany)). In: AIP Conference Proceedings **1085**. AIP, Melville (2009) XVI, 917 S. : Ill., graph. Darst. p.

Henning, T., E. Grün, J. Steinacker (Eds.): Cosmic dust - near and far : proceedings of a conference held at the Heidelberg Convention Center, Heidelberg, Germany, 8 - 12 September 2008. (International Conference "Cosmic Dust - Near and Far", 2008-09-08 to 2008-09-12, Heidelberg). In: Astronomical Society of the Pacific conference series **414**. Astronomical Society of the Pacific, San Francisco, Calif (2009) xxii, 543 p. : ill. ; 24 cm.

Horányi, M., J. A. Burns, M. M. Hedmann, G. H. Jones and S. Kempf: Diffuse Rings. In: Saturn from Cassini-Huygens. (Eds.) Michele K. Dougherty, Larry W. Esposito and Stamatios M. Krimigis. Springer, Dordrecht (2009) 511-536.

Jaumann, R., R. N. Clark, F. Nimmo, A. R. Hendrix, B. J. Buratti, T. Denk, J. M. Moore, P. M. Schenk, S. J. Ostro and R. Srama: Icy Satellites: Geological Evolution and Surface Processes. In: Saturn from Cassini-Huygens. (Eds.) Michele K. Dougherty, Larry W. Esposito and Stamatios M. Krimigis. Springer, Dordrecht (2009) 637-681.

Jochim, S.: Ultracold Fermi Gases: Properties and Techniques. In: Cold atoms and molecules: a testground for fundamental many particle physics. (Eds.) Weidemüller, Matthias. Wiley-VCH, Weinheim (2009) 283-313.

Kirk, J., Y. Lyubarsky and J. Pétri: The theory of pulsar winds and nebulae. In: Neutron stars and pulsars. (Eds.) Werner Becker. Astrophysics and Space Science Library **357**. Springer, Berlin ; Heidelberg (2009) 421-450.

Mocken, G. R., Y. I. Salamin and C. H. Keitel: Relativistic Quantum Dynamics in Intense Laser Fields. In: Progress in Ultrafast Intense Laser Science. (Eds.) A. W. Castleman et al. Springer Series in Chemical Physics **91**. Springer, Berlin, Heidelberg (2009) 113-132.

Paulus, G. G. and D. Bauer: Double-slit experiments in the time domain. In: Time in Quantum Mechanics - Vol. 2. Muga J.G., Campo A, Ruschhaupt a. Lecture Notes in Physics **789**. Springer, Berlin, Heidelberg (2009) 303-339.

Povh, B., K. Rith, C. Scholz and F. Zetsche: Teilchen und Kerne: eine Einführung in die physikalischen Konzepte. 8. Aufl. Springer, Berlin ; Heidelberg (2009) 978-3-540-68075-8 p.

Resconi, E., F. A. Aharonian (Eds.): Proceedings of the Workshop High-Energy Gamma-rays and Neutrinos from Extrac-Galactic Sources. (Workshop High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources, 2009-01-13 to 2009-01-16, Heidelberg, Germany). In: International Journal of Modern Physics D, **18** (10) (2009).

## Conference Papers

Abramowski, A., D. Horns, S. Gillessen, J. Ripken and C. van Eldik: Time-dependent absorption of very high-energy gamma-rays from the Galactic center by pair-production. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 368-371.

Agarwalla, S., A. Bandyopadhyay, G. Bhattacharyya, E. J. Chun,

B. Dasgupta, A. Dighe, P. Ghoshal, A. K. Giri, S. Goswami, M. Hirsch, T. Kajita, M. Kaplinghat, H. S. Mani, R. Mohanta, M. V. N. Murthy, S. Pakvasa, M. K. Parida, G. Rajasekaran, S. Ray, W. Rodejohann, P. Roy, S. Uma Sankar, T. Schwetz, N. Sinha, S. Choubey and D. Indumathi: Working group report: Neutrino physics. In: Pramana **72**, 1 (2009) 269-275.

Akhmedov, E. K.: Neutrino oscillograms of the Earth and CP violation in neutrino oscillations. In: Nuclear Physics B - Proceedings Supplements **188** (2009) 204-206.

Alperovich, V. L., D. A. Orlov, V. G. Grishaev, S. N. Kosolobov, A. S. Jaroshevich, H. E. Scheibler and A. S. Terekhov: Compact vacuum tubes with GaAs(Cs,O) photocathodes for studying spin-dependent phenomena. In: Proceedings of SPIE **7398**, Seq. No.: 739818 (2009).

Andjelkovic, Z., W. Barth, G. Birkel, I. Blank, K. Blaum, N. P. M. Brantjes, E. Bodewits, A. Bräuning-Demian, D. Church, L. Dahl, S. Götz, F. Herfurth, R. Hoekstra, O. Kester, H.-J. Kluge, S. Koszudowski, C. Kozhuharov, G. Maero, W. Nörtershäuser, J. Pfister, W. Quint, U. Ratzinger, A. Schempp, D. Segal, A. Sokolov, T. Stöhlker, R. C. Thompson, J. Ullrich, V. Varentsov, M. Vogel, G. Vorobjev, A. Warczak, A. Weidemüller, C. Weinheimer and D. F. A. Winters: HITRAP - a facility for experiments on heavy highly charged ions and on antiprotons. In: Journal of Physics: Conference Series **194**, part 14, Seq. No.: 142007 (2009).

Arka, I., J. G. Kirk and A. R. Bell: Pair Production and Cascading in Counterpropagating Laser Beams. In: Europhysics Conference Abstracts **33E**, Seq. No.: P-1.021 (2009).

Bamba, A., R. Yamazaki, K. Kosack, K. Kohri, H. Matsumoto, S. Wagner and G. Pühlhofer: X-ray follow-ups of TeV unID sources using Suzaku - HESS J1745-303 -. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 393-396.

Bandrauk, A., C. P. Barty, D. Habs, C. H. Keitel, J. Schreiber, R. Schützhold, P. G. Thirolf and H. A. Weidenmüller: Photonic nuclear Physics - explore nuclei with photons. In: Report on the results of the Grand Challenges Meeting, (Eds.) Georg Korn, Patrizio Antici. Inst., Paris (2009) 68-91.

Bauke, H. and C. H. Keitel: Efficient Integration of Quantum Mechanical Wave Equations by Unitary Transforms. In: Computational Methods in Sciences and Engineering : Advances in Computational Science: Lectures presented at the International Conference, (Eds.) George Maroulis. AIP Conference Proceedings **1148**. AIP, Melville (2009) 17-20.

Becherini, Y., A. Djannati-Atai, M. Punch, K. Bernlöhr, S. Ehler, J. Masbou, E. Moulin and M. Paz Arribas: HESS-II reconstruction strategy and performance in the low-energy (20-150 GeV) domain. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 738-741.

Beilicke, M., C. M. Hui, D. Mazin, M. Raue, R. M. Wagner and S. Wagner: A joint H.E.S.S./MAGIC/VERITAS observation campaign on the radio galaxy M 87 to probe the origin of VHE gamma-raye mission. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 553-556.

Benbow, W. et al. for the Hess Collaboration: A Spectacular VHE Gamma-ray Outburst from PKS 2155-305 in 2006. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 1081-1084.

Berge, D. et al. for the Hess Collaboration: Primary particle acceleration above 100TeV in the shell-type Supernova

- Remnant RXJ1713.7-3946 with deep H.E.S.S. observations. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 679-682.
- Bernlöhr, K.: CTA simulations with CORSIKA/sim\_telarray. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 874-877.
- Bogovalov, S. V. and S. R. Kelner: Dissipationless accretion due to plasma outflow. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 612-615.
- Bordas, P., J. M. Paredes and V. Bosch-Ramon: Gamma-ray emission from microquasar jets/ISM interaction. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 297-300.
- Borghesi, M., K. Quinn, P. A. Wilson, C. A. Cecchetti, B. Ramakrishna, L. Romagnani, G. Sarri, L. Lancia, J. Fuchs, A. Pipahl, T. Toncian, O. Willi, D. C. Corrol, P. Gallegos, M. N. Quinn, X. H. Xuan, P. McKenna, R. J. Clarke, R. G. Evans, D. Neely, M. Notley, A. Macchi, T. V. Lyseikina and W. Nazarov: Relativistic current dynamics investigations by proton probing. In: 2nd International Symposium on Laser-Driven Relativistic Plasmas Applied to Science, Industry and Medicine, (Eds.) Paul R. Bolton et al. AIP Conference Proceedings **1153**. (2009) 319-330.
- Bosch-Ramon, V., D. Khangulyan and F. A. Aharonian: Clues to unveil the emitter in LS 5039: powerful jets vs colliding winds. In: HIGH ENERGY GAMMA-RAY ASTRONOMY: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 223-225.
- Britsch, M. for the LHCb Collaboration: First Measurements with the LHCb Experiment. In: Science Wise Publishing **DIS2009**, Seq. No.: dis.2009.76 (2009) 1-5.
- Budjáš, D., O. Chkvolets and S. Schönert: Background Suppression Using Pulse Shape Analysis with a BEGe Detector for Neutrinoless Double Beta Decay Search with GERDA. In: 10th Conference on the Intersections of Particle and Nuclear Physics, (Eds.) Marvin L. Marshak. AIP Conference Proceedings **1182**. American Institute of Physics, Melville, N.Y. (2009) 96-99.
- Bühler, R., A. Jacholkowska and S. J. Wagner: Probing Lorentz Invariance with a VHE flare of PKS 2155-304 in July 2006. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 419-422.
- Bühler, R. for the Hess Collaboration: Energy spectrum of cosmic iron nuclei measured by H.E.S.S.. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 15-18.
- Buhr, H., H. B. Pedersen, S. Altevoigt, V. M. Adrianarijaona, H. Kreckel, L. Lamnich, S. Novotny, D. Strasser, J. Hoffmann, M. Lange, M. Lestinsky, M. B. Mendes, M. Motsch, O. Novotny, D. Schwalm, X. Urbain, D. Zajfman and A. Wolf: Electron collisions with 4He<sup>2+</sup> at the TSR. In: Journal of Physics: Conference Series **192**, Seq. No.: 012013 (2009) 1-4.
- Bunyatyan, A.: What do we learn from forward detectors at LHC ?. In: Proceedings of the 38th International Symposium on Multiparticle Dynamics (2009) 244-249.
- Carrigan, S. et al. for the Hess Collaboration: Discovery of the candidate pulsar wind nebula HESS J1718-385 in very-high-energy gamma-rays. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 663-666.
- Carrigan, S. et al. for the Hess Collaboration: Establishing a connection between high-power pulsars and very-high-energy gamma-ray sources. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 659-662.
- Casanova, S., S. Gabici, F. A. Aharonian, K. Torii, Y. Fukui, T. Onishi, H. Yamamoto and A. Kawamura: Probing the Galactic cosmic ray flux with submillimeter and gamma ray data. In: High Energy Gamma Ray Astronomy: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy; AIP Conference Proceedings **1085**. AIP, Melville (2009) 389-392.
- Chaves, R. C. G., M. Renaud, M. Lemoine-Goumard and P. Goret: HESS J1848-018: Discovery Of VHE gamma-ray Emission From The Direction Of W 43. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 372-375.
- Chaves, R. C. G., E. D. Wilhemi and S. Hoppe: The HESS Galactic Plane Survey. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. (2009) 219-222.
- Chernyakova, M., Y. Uchiyama, T. Takahashi, F. Aharonian and A. Neronov: X-ray Observations of PSR B1259-63 2007 Periastron Passage. In: SIMBOL-X: FOCUSING ON THE HARD X-RAY UNIVERSE: Proceedings of the 2nd International Simbol-X Symposium AIP Conference Proceedings **1126**. AIP, Melville (2009) 271-274.
- Clapson, A.-C. for the Hess Collaboration: Morphology and hardness ratio exploitation under limited statistics. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 681-684.
- Colin, P., M. Beilicke, F. Davies, D. E. Harris, C. M. Hui, D. Mazin, M. Raue, R. M. Wagner, S. Wagner and R. C. Walker: The 2008 multiwavelength campaign of the TeV radio galaxy M87. In: International Journal of Modern Physics D **18**, 10 (2009) 1493-1498.
- Costamante, L., F. A. Aharonian, R. Bühler, D. Khangulyan, A. Reimer and O. Reimer: The new surprising behaviour of the two "prototype" blazars PKS 2155-304 and 3C 279. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 644-647.
- Deil, C., C. van Eldik, A. Förster, G. Hermann, W. Hofmann and M. Panter: HESS II - Telescope Structure, Reflector and Drive System. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 693-695.
- Dempsey, P. and J. Kirk: Relativistic shock acceleration: A Hartree-Fock approach. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 594-596.
- Dempsey, P. and F. M. Rieger: On particle acceleration in rotating AGN flows. In: International Journal of Modern Physics D **18**, 10 (2009) 1651-1654.
- de Ona Wilhelmi, E.: Status of the H.E.S.S. telescope. In: Proceedings of the 6th Edition: Bridging the Gap Between GeV and TeV AIP Conference Proceedings **1112**. AIP, Melville (2009) 16-22.

- de Ona Wilhelmi, E., A. Djannati-Atai and M. Renaud: The unidentified source HESS J1908+063/MGRO J1908+06. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 273-276.
- Djannati-Atai, et al. for the Hess Collaboration: H.E.S.S. Galactic Plane Survey unveils a Milagro Hotspot. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 863-866.
- Dodonov, V.: Leading Neutrons at HERA. In: DIFFRACTION 2008: International Workshop on Diffraction in High Energy Physics, (Eds.) Roberto Fiore. AIP Conference Proceedings **1105**. AIP, Melville (2009) 38-41.
- Domainko, W. for the Hess Collaboration: H.E.S.S. observations of galaxy clusters. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México City, México (2009) 953-956.
- Domainko, W. for the Hess Collaboration: New Results from H.E.S.S. Observations of Galaxy Clusters. In: International Journal of Modern Physics D **18**, 10 (2009) 1627-1631.
- Egberts, J., S. Artikova and C. P. Welsch: Flexible Core Masking Technique for Beam Halo Measurements with High Dynamic Range. In: Joint Accelerator Conferences Website (JACoW) **DIPAC 2009**, Seq. No.: TUPB30 (2009) 237-239.
- Egberts, K. for the Hess Collaboration: The cosmic-ray electron spectrum measured with H.E.S.S.. In: Proceeding of Science **EPS-HEP 2009**, Seq. No.: 097 (2009) 1-6.
- Egberts, K. for the Hess Collaboration: Measurement of Cosmic Ray Electrons with H.E.S.S.. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México City, México (2009) 35-38.
- El Ghazaly, M., M. al-Malki, A. I. Papash and C. P. Welsch: Layout of an Electrostatic Storage Ring at KACST. In: Joint Accelerator Conferences Website (JACoW) **PAC09**, Seq. No.: FR5REP044 (2009) 4866-4868.
- El Ghazaly, M., M. al-Malki, A. Papash and C. P. Welsch: A Highly Flexible Low Energy Ion Injector at KACST. In: Joint Accelerator Conferences Website (JACoW) **PAC09**, Seq. No.: MO6RFP042 (2009) 451-453.
- Esperante, D., C. Bauer, W. Hofmann, M. Britsch, M. Schmelling and H. Voss: LHCb silicon tracker DAQ and DCS online systems. In: 16th IEEE-NPSS Real Time Conference, Seq. No.: 5321949 (2009) 259-266.
- Feinstein, F., A. Fiasson, Y. Gallant, R. C. G. Chaves, V. Marandon, M. de Naurois, K. Kosack and G. Rowell: What do supernova remnants interacting with molecular clouds reveal?. In: Proceedings of the 6th Edition: Bridging the Gap Between GeV and TeV AIP Conference Proceedings **1112**. AIP, Melville (2009) 54-67.
- Fiasson, A., K. Kosack, J. Skilton, Y. Gallant, J. Hinton and G. Pühlhofer: Probing cosmic ray acceleration through molecular clouds in the vicinity of supernova remnant with H.E.S.S.. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 361-363.
- Förster, A., M. Doro, P. Brun, R. Canestrari, P. Chadwick, L. Font, M. Ghigo, E. Lorenz, M. Mariotti, J. Michalowski, J. Niemiec, G. Pareschi, B. Peyaud and K. Seweryn: Mirror development for CTA. In: Proceedings of SPIE **7437**, Seq. No.: 743712 (2009).
- Froese, M., K. Blaum, J. R. Crespo López-Urrutia, F. Fellenberger, M. Grieser, D. Kaiser, M. Lange, F. Laux, S. Menk, D. A. Orlov, R. Repnow, C. D. Schröter, D. Schwaln, A. Shornikov, T. Sieber, J. Ullrich, J. Varju, R. von Hahn, A. Wolf, O. Heber, M. Rappaport, J. Toker and D. Zajfman: Cryogenic ion beam storage. In: Proceedings of PAC09, Vancouver, BC, Canada, Seq. No.: fr5rep041 (2009) 1-3.
- Fukuzawa, H., X.-J. Liu, L. Foucar, M. Kurka, G. Prümper, M. Okunishi, K. Ueda, K. Motomura, N. Saito, H. Iwayama, K. Nagaya, H. Murakami, A. Sugishima, M. Yao, A. Rudenko, K. U. Kühnel, J. Ullrich, R. Feifel, A. Czasch, R. Dörner, A. Belkacem, M. Nagasono, A. Higashiya, M. Yabashi, T. Togashi, T. Ishikawa, H. Ohashi and H. Kimura: Ion-ion coincidence studies on multiple ionizations of N2 and O2 molecules irradiated by EUV free-electron laser at SPring-8. In: Journal of Physics: Conference Series **194**, 13, Seq. No.: 032047 (2009).
- Fukuzawa, H., X. Liu, K. Motomura, G. Prümper, M. Okunishi, K. Shimada, K. Ueda, T. Harada, M. Toyoda, M. Yanagihara, M. Yamamoto, K. Nagaya, H. Iwayama, M. Yao, N. Saito, A. Rudenko, J. Ullrich, L. Foucar, A. Czasch, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Momentum spectroscopy of fragment ions emitted from Xe clusters irradiated by EUV-FEL at SPring-8. In: Journal of Physics - Conference Series **194**, Seq. No.: 012052 (2009).
- Funk, S., J. A. Hinton, G. Hermann and S. Digel: A future very-high-energy view of our Galaxy. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 886-889.
- Gabici, S., S. Casanova and F. A. Aharonian: Non-thermal radiation from molecular clouds illuminated by cosmic rays from nearby supernova remnants. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 265-268.
- Gabici, S., A. Taylor, R. White, F. Aharonian and S. Casanova: Revisiting the diffuse neutrino flux from the inner Galaxy using new constraints from very high energy  $\gamma$ -ray observations. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **602**, 1 (2009) 113-116.
- Gerigk, F., M. Schuh, J. Tüchtmantel and C. P. Welsch: Higher Order Modes in the SC Cavities of the SPL. In: Joint Accelerator Conferences Website (JACoW) **PAC09**, Seq. No.: FR5REP053 (2009) 4887-4889.
- Groß, A. and J. L. Bazo Alba: Search for sources of astrophysical neutrinos with IceCube. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 779-782.
- Hagmann, S., T. Stöhlker, A. Surzhykov, S. Fritzsche, D. Jakubassa-Amundsen, B. Najjari, A. Voitkov, C. Kozhuharov, J. Ullrich, R. Moshhammer, M. Nofal, A. Gumberidze, U. Spillmann, R. Reuschl, S. Heß, S. Trotsenko, F. Bosch, D. Liesen, R. Dörner, H. Rothard, G. Lanzanó and E. de Filippo: Electron Transfer Processes to Continuum in Near-Relativistic Ion-Atom Collisions. In: Application of accelerators in research and industry : Twentieth International Conference, (Eds.) Floyd D. McDaniel, Barney L. Doyle. AIP Conference Proceedings **1099**. American Institute of Physics, Melville, NY (2009) 121-124.
- Harasimowicz, J., K.-U. Kühnel, M. Putignano and C. P. Welsch: Beam Diagnostics for the USR. In: Joint Accelerator Conferences Website (JACoW) **PAC09**, Seq. No.: TH6REP043 (2009) 4048-4050.
- Hartmann, R., S. Epp, S. Herrmann, P. Holl, N. Meidinger, C. Reich, D. Rolles, H. Soltau, L. Strüder, J. Ullrich and G. Weidenspointner: Large format pnCCDs as imaging detectors for X-ray free-electron-lasers. In: 2008 Nuclear

- Science Symposium and Medical Imaging Conference (2008 NSS/MIC) IEEE Nuclear Science Symposium - Conference **1-9**. IEEE (2009) 1865-1870.
- Heisel, M., F. Kaether and H. Simgen: Statistical analysis of low-level material screening measurements via gamma-spectroscopy. In: Applied Radiation and Isotopes **67**, 5 (2009) 741-745.
- Hermann, G., C. Bauer, C. Föhr, W. Hofmann and T. Kihm: A Trigger And Readout Scheme For Future Cherenkov Telescope Arrays. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 898-901.
- Herr, T. and W. Hofmann: Very-High Energy Gamma-Ray Flux Limits for Nearby Active Galactic Nuclei. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 648-651.
- Heusler, A. and P. von Brentano: Multiplet Splitting of Particle-Hole States in Pb-208. In: Proceedings of the 13th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics AIP Conference Proceedings **1090**. AIP, Melville (2009) 595-596.
- Hinton, J. et al. for the Hess Collaboration (Ed.): Simultaneous H.E.S.S. and Chandra observations of Sgr A\* during an X-ray flare. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 633-636.
- Hoppe, S. for the Hess Collaboration: The H.E.S.S. survey of the inner Galactic plane. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México City, México (2009) 579-582.
- Hoppe, S. for the Hess Collaboration: H.E.S.S. observations of the supernovae remnant RCW 86. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México City, México (2009) 585-588.
- Hoppe, S. for the Hess Collaboration: Discovery of gamma-ray emission from the shell-type supernova remnant RCW 86 with H.E.S.S.. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 332-335.
- Intermite, A., M. Putignano and C. P. Welsch: Feasibility Study of an Optical Fibre Sensor for Beam Loss Detection Based on a SPAD Array. In: Joint Accelerator Conferences Website (JACoW) DIPAC 2009, Seq. No.: TUPB27 (2009) 228-230.
- Iwayama, H., K. Nagaya, M. Yao, H. Fukuzawa, X.-J. Liu, G. Prümper, M. Okunishi, K. Shimada, K. Ueda, T. Harada, M. Toyoda, M. Yanagihara, M. Yamamoto, K. Motomura, N. Saito, A. Rudenko, J. Ullrich, L. Foucar, A. Czasch, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi, H. Kimura and T. Togashi: Frustration of direct photoionizations of Argon clusters irradiated with intense EUV-FEL pulses. In: Journal of Physics: Conference Series **194**, 13, Seq. No.: 032069 (2009).
- Jiang, Y. H., A. Rudenko, K.-U. Kühnel, T. Ergler, S. Lüdemann, K. Zrost, D. Fischer, J. Pérez-Torres, E. Plésiat, F. Martín, L. Foucar, J. Titze, M. Schöffler, R. Dörner, L. Sanz-Vicario, S. Düsterer, R. Treusch, C. D. Schröter, R. Moshhammer and J. Ullrich: Sequential and direct two-photon double ionization of D2 at FLASH. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032057 (2009).
- Jiang, Y. H., A. Rudenko, M. Kurka, K. U. Kühnel, L. Foucar, T. Ergler, S. Lüdemann, K. Zrost, T. Ferger, D. Fischer, A. Dorn, J. Titze, T. Jahnke, M. Schöffler, S. Schössler, T. Havermeier, M. Smolarski, K. Cole, R. Dörner, T. J. M. Zouros, S. Düsterer, R. Treusch, M. Gensch, C. D. Schröter, R. Moshhammer and J. Ullrich: EUV-photon-induced multiple ionization and fragmentation dynamics: from atoms to molecules. In: Journal of Physics B: Atomic, Molecular and Optical Physics **42**, 13, Seq. No.: 134012 (2009) 1-9.
- Jiang, Y. H., A. Rudenko, M. Kurka, K.-U. Kühnel, M. Toppin, O. Herrwerth, M. Lezius, M. Kling, L. Foucar, M. Schöffler, K. Cole, B. Ullrich, N. Neumann, R. Dörner, A. Cassimi, S. Düsterer, R. Treusch, M. Gensch, C. D. Schröter, R. Moshhammer and J. Ullrich: Time-Resolved Few-Photon induced Molecular Fragmentation at FLASH. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032065 (2009).
- Jordon-Thaden, B., H. B. Pedersen, S. Altevogt, O. Heber, L. Lammich, M. L. Rappaport, D. Schwalm, J. Ullrich, D. Zajfman, R. Treusch, N. Geurassimova, M. Martins and A. Wolf: Soft X-ray photolysis of the hydronium ion. In: Journal of Physics: Conference Series **194**, Seq. No.: 022074 (2009).
- Junginger, T., W. Weingarten and C. Welsch: RF Characterization of Superconducting Samples. In: Joint Accelerator Conferences Website (JACoW) SRF2009, Seq. No.: TUOBAU03 (2009) 130-136.
- Kaufmann, S. for the Hess Collaboration and for the Fermi-LAT Collaboration: Broadband multi-wavelength campaign on PKS 2005-489. In: 2009 Fermi Symposium : eConf Proceedings, Seq. No.: C091122 (2009).
- Kirk, J. G., A. R. Bell and I. Arka: Prolific Pair Production with Next Generation Lasers. In: 36th European Physical Society Conference on Plasma Physics Europhysics Conference Abstracts **33E**. European Physical Society, Seq. No.: O5.060 (2009).
- Komin, N. et al. for the Hess Collaboration: Morphological Studies of the PWN Candidate HESS J1809-193. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 815-818.
- Krantz, C., D. A. Orlov, D. Bernhardt, C. Brandau, J. Hoffmann, A. Müller, T. Ricsóka, S. Ricz, S. Schippers and A. Wolf: Low-lying dielectronic resonances of Fe xxii for accurate energy determination of autoionising Rydberg levels on boronlike cores. In: Journal of Physics: Conference Series **163**, Seq. No.: 012059 (2009) 1-4.
- Krantz, C., D. A. Orlov, J. Hoffmann, M. Lestinsky, O. Novotny, A. S. Jaroshevich, A. S. Terekhov and A. Wolf: An Ultra Cold Photoelectron Gun for the Heidelberg TSR Target Section. In: Journal of Physics: Conference Series **192**, 1, Seq. No.: 012025 (2009) 1-6.
- Kremer, M., B. Fischer, A. Rudenko, V. L. B. de Jesus, C. D. Schröter, B. Feuerstein, R. Moshhammer and J. Ullrich: Electron localization in fragmentation of H2 with CEP stabilized laser pulses. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032005 (2009).
- Kubicek, K., H. Bruhns, J. Braun, J. R. Crespo López-Urrutia and J. Ullrich: Two-loop QED contributions tests with mid-Z He-like ions. In: Journal of Physics: Conference Series **163**, Seq. No.: 012007 (2009).
- Laux, F., F. Fellenberger, M. Grieser, M. Lange, R. von Hahn, T. Sieber, A. Wolf and K. Blaum: Position pickups for the cryogenic storage ring CSR. (2009).
- Laux, F., M. Grieser, R. von Hahn, T. Sieber, A. Wolf and K. Blaum: Position pickups for the cryogenic storage ring. In: Joint Accelerator Conferences Website, Seq. No.: <http://accelconf.web.cern.ch/AccelConf/d09/papers/tupd02.pdf> (2009).

- Lenain, J., W. Benbow, C. Boisson, R. Bühler, L. Costamante, B. Giebels, K. Katarzyński, S. Pita, M. Punck, M. Raue, H. Sol, G. Superina, F. Volpe and A. Zech: PKS 2155-304 in July 2006: H.E.S.S. results and simultaneous multi-wavelength observations. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 415-418.
- Lestinsky, M., N. G. Badnell, D. Bernhardt, O. Boroviyk, M. Grieser, J. Hoffmann, C. Krantz, D. V. Lukic, A. Müller, D. A. Orlov, D. W. Savin, E. W. Schmidt, S. Schippers and A. Wolf: Experimental studies of electron collisions with atomic ions for astrophysical plasmas. In: Journal of Physics: Conference Series **194**, Seq. No.: 062025 (2009).
- Litvinov, Y.: Mass and lifetime measurements at the present ESR facility. In: International Journal of Modern Physics E: Nuclear Physics **18**, 2 (2009) 323-334.
- Liu, Y., A. Rudenko, S. Tschuch, M. Siegel, U. Morgner, R. Moshhammer and J. Ullrich: Strong field double ionization of atoms below the recollision threshold. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032037 (2009).
- Lötstedt, E.: Laser-assisted bremsstrahlung and electron-positron pair creation in relativistic laser fields. In: Laser-Driven Relativistic Plasmas Applied To Science, Industry and Medicine, (Eds.) Paul R. Bolton et al. AIP Conference Proceedings **1153**. AIP, Melville (2009) 75-82.
- Maccione, L., A. M. Taylor, D. M. Mattingly and S. Liberati: Ultra-high-energy cosmic rays and Planck-suppressed Lorentz invariance violation. In: International Journal of Modern Physics D **18**, 10 (2009) 1621-1625.
- Marandon, V., A. Djannati-Ataï, R. Terrier, G. Pühlhofer, D. Hauser, S. Schwarzbarg and D. Horns: A closer look at HESS J1837-069 following the pulsar discovery. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 320-323.
- Meissl, W., R. Ginzler, R. Heller, A. S. El-Said, G. Kowarik, C. Vasko, C. Gösselsberger, R. Ritter, B. Solleder, M. Simon, S. Facsko, J. R. Crespo López-Urrutia, C. Lemell, R. M. Papaléo, W. Möller, J. Ullrich, J. Burgdörfer and F. Aumayr: Potential energy - induced nanostructuring of insulator surfaces by impact of slow, very highly charged ions. In: Journal of Physics: Conference Series **194**, Seq. No.: 132027 (2009).
- Minaya Ramirez, E., G. Audi, D. Beck, K. Blaum, C. Böhm, C. Borgmann, M. Breitenfeldt, N. Chamel, S. George, S. Goriely, F. Herfurth, A. Herler, A. Kellerbauer, M. Kowalska, D. Lummey, S. Naimi, D. Neidherr, J. M. Pearson, M. Rosenbusch, S. Schwarz and L. Schweikhard: Neutron drip-line topography. In: Nuclear structure and dynamics '09: Proceedings of the International Conference, (Eds.) Matko Milin et al. AIP Conference Proceedings **1165**. AIP Press, Woodbury, NY (2009) 94-97.
- Moshhammer, R. and J. Ullrich: Attosecond and x-ray free-electron laser physics. In: Journal of Physics B: Atomic, Molecular and Optical Physics **42**, 13, Seq. No.: 130201 (2009) 1-1.
- Mücher, D., J. Iwanicki, J. Jolie, I. Stefanescu, J. Van de Walle, F. Becker, U. Bergmann, A. Blazhev, E. Bouchez, P. Butler, J. Cederkäll, T. Czornyka, T. Davinson, J. Eberth, T. Faesterrmann, S. Franchoo, C. Fransen, J. Gerl, R. Gernhauser, D. Habs, R.-D. Herzberg, M. Huyse, D. Jenkins, G. Jones, O. Kestert, W. Korten, J. Kownacki, T. Kröll, R. Krücken, Z. Liu, S. Mandal, P. Naiorkowski, T. Nilsson, N. Pietralla, G. Rainovski, H. Scheit, A. Scherillo, D. Schwalm, T. Sieber, C. Theisen, P. Van Duppen, N. Warr, D. Weisshaar, F. Wenander, B. Wolf, P. Woods and M. Zielinska: Shell structure and shape changes in neutron rich krypton isotopes. In: Proceedings of the 13th International Symposium on Capture Gamma-Ray Spectroscopy and Related Topics AIP Conference Proceedings **1090**. AIP, Melville (2009) 587-588.
- Mulser, P. and D. Bauer: Collisionless heating by intense laser radiation: Routes to irreversibility and anharmonic resonance. In: Pacific Rim Conference on Lasers and Electro-Optics, CLEO - Technical Digest, Seq. No.: 5292122 (2009).
- Naumann-Godo, M., M. Beilicke, D. Hauser, M. Lemoine-Goumard and M. De Naurois: Discovery of SN 1006 in VHE gamma-rays by H.E.S.S.. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 304-307.
- Novotny, O., O. Motapon, M. H. Berg, H. Buhr, H. Fadil, M. Grieser, J. Hoffmann, A. S. Jaroshevich, B. Jordon-Thaden, C. Krantz, M. Lange, M. Lestinsky, M. Mendes, S. Novotny, A. Petriguani, D. A. Orlov, I. F. Schneider, A. E. Orel, A. Wolf and D. Bing: Dissociative recombination of CF<sup>+</sup>: Experiment and theory. In: Journal of Physics: Conference Series **192**, 1, Seq. No.: 012021 (2009) 1-10.
- Novotny, S., H. Rubinstein, H. Buhr, O. Novotny, J. Hoffmann, M. B. Mendes, D. A. Orlov, M. H. Berg, M. Froese, A. S. Jaroshevich, B. Jordon-Thaden, M. Grieser, C. Krantz, M. Lange, M. Lestinsky, A. Petriguani, I. F. Schneider, D. Shafir, F. O. Waffeu Tamo, D. Zajfman, D. Schwalm and A. Wolf: Anisotropic fragmentation in low-energy dissociative recombination. In: Journal of Physics: Conference Series **192**, 1, Seq. No.: 012024 (2009) 1-8.
- Orlov, D. A., C. Krantz, A. Shornikov, M. Lestinsky, J. Hoffmann, A. S. Jaroshevich, S. N. Kosolobov, A. S. Terekhov and A. Wolf: Ultra Cold Photoelectron Beams for Ion Storage Rings. In: Proceedings of the 18th International Spin Physics Symposium AIP Conference Proceedings **1149**. AIP, Melville (2009) 1007-1016.
- Orlov, D. A., C. Krantz, D. Bernhardt, C. Brandau, J. Hoffmann, A. Müller, T. Ricsóka, S. Schippers, A. Shornikov and A. Wolf: High resolution low-energy dielectronic recombination rate coefficients of beryllium-like germanium: QED test bench for two-valence-electron systems. In: Journal of Physics: Conference Series **163**, Seq. No.: 012058 (2009) 1-4.
- Papash, A. I. and C. P. Welsch: Investigations of the USSR "Short Pulse" Operation Mode. In: Joint Accelerator Conferences Website (JACoW) PAC09, Seq. No.: FR5REP042 (2009) 4863-4865.
- Papash, A. I. and C. P. Welsch: An Update of the USSR Lattice: Towards a True Multi-User Experimental Facility. In: Joint Accelerator Conferences Website (JACoW) PAC09, Seq. No.: FR5PFP013 (2009) 4335-4337.
- Paredes, J. M., J. Marti, C. H. Ishwara-Chandra, J. R. Sanchez-Sutil, S. Ehlert, A. J. Muñoz-Arjonilla, V. Zabalza, M. Ribo, P. M. Luque-Escamilla, V. Bosch-Ramon, M. Peracaula, J. Moldón and P. Bordas: A radio and near-infrared mini-survey of the MGRO J2019+37 complex. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 257-260.
- Pastor, S. and S. Schönert: Session I: Probing low energy and mass scales. In: Nuclear Physics B - Proceedings Supplements **188** (2009) 371-376.
- Pegoraro, F., M. Borghesi, S. V. Bulanov, S. S. Bulanov, F. Califano, D. Farina, T. V. Liseikina, V. Vshivkov, N. Naumova, K. Nishihara, H. Ruhl and Y. Sentoku: Relativistic phenomena in plasma solitons. In: Laser-plasma interactions, (Eds.) Jaroszynski, Dino A. ; Bingham, Robert. SUSSP schools **60**. CRC Press/Taylor & Francis, Boca Raton, Fla. [u.a.] (2009) 231-250.
- Peters, A., E. Feldmeier, C. Schömers, R. Steiner, H. Eickhoff, T. Knapp and C. P. Welsch: Magnetic Field Control in Synchrotrons. In: Joint Accelerator Conferences Website (JACoW) PAC09, Seq. No.: MO6PFP017 (2009) 169-171.
- Petriguani, A., H. Kreckel, M. H. Berg, S. Altevogt, D. Bing, H.

- Buhr, M. Froese, M. Grieser, J. Hoffmann, B. Jordon-Thaden, C. Krantz, M. B. Mendes, O. Novotny, S. Novotny, D. Orlov, S. Reinhardt and A. Wolf: Spectroscopy and dissociative recombination of the lowest rotational states of H<sup>+</sup>3. In: Journal of Physics: Conference Series **192**, 1, Seq. No.: 012022 (2009) 1-11.
- Popescu, C. C. and R. J. Tuffs: Modelling the SEDS of spiral galaxies. In: Astronomy in the Submillimeter and far infrared Domains with the Herschel Space Observatory, (Eds.) Pagani L; Gerin M. EAS Publication series **34**. EAS (2009) 247-264.
- Putignano, M., C. P. Welsch and K.-U. Kühnel: Design of a Nozzle-Skimmer System for a Low Perturbation Ionization Beam Profile Monitor. In: Joint Accelerator Conferences Website (JACoW) **DIPAC 2009**, Seq. No.: TUPB08 (2009) 179-181.
- Reimer, O. for the Hess Collaboration: HESS J1023-575: Non-thermal particle acceleration associated with a young stellar cluster Westerlund 2. In: Proceedings of the 30th International Cosmic Ray Conference, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 567-570.
- Renaud, M., P. Goret and R. C. G. Chaves: On the nature of HESS J1503-582 revealed by the HESS experiment: Coincidence with a FVW?. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 281-284.
- Renaud, M., S. Hoppe, N. Komin, E. Moulin, V. Marandon and A. C. Clapson: Pulsar Wind Nebula candidates recently discovered by HESS. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 285-288.
- Reville, B., J. G. Kirk and P. Duffy: Steady-state solutions to the non-linear shock acceleration Problem. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings **1085**. AIP, Melville (2009) 353-356.
- Rieger, F.: On Supermassive Binary Black Holes in AGNs. In: High energy gamma-ray astronomy: 4th International Meeting on High Energy Gamma-Ray Astronomy, Heidelberg, Germany, 7 - 11 July 2008, (Eds.) Felix A. Aharonian, Werner Hofmann, Frank M. Rieger. AIP conference proceedings **1085**. American Inst. of Physics, Melville, N.Y. (2009) 632-635.
- Rieger, F. and F. Aharonian: On the Origin of VHE Gamma-Ray Emission in M87. In: High energy gamma-ray astronomy: 4th International Meeting on High Energy Gamma-Ray Astronomy, Heidelberg, Germany, 7 - 11 July 2008, (Eds.) Felix A. Aharonian, Werner Hofmann, Frank M. Rieger. AIP Conference Proceedings **1085**. American Institute of Physics, Melville, N.Y. (2009) 640-643.
- Rodejohann, W.: Deviations from tri-bimaximal mixing. In: Nuclear Physics B - Proceedings Supplements **188** (2009) 336-338.
- Rodejohann, W.: The see-saw mechanism: neutrino mixing, leptogenesis and lepton flavor violation. In: Pramana **72** (2009) 217-227.
- Rudenko, A., M. Kurka, L. Foucar, K.-U. Kühnel, Y. H. Jiang, T. Ergler, T. Havermeier, M. Smolarski, S. Schössler, K. Cole, M. Schöffler, R. Dörner, T. Zouros, S. Düsterer, R. Treusch, M. Gensch, C. D. Schröter, R. Moshhammer and J. Ullrich: Two-photon double ionization of He and Ne with intense VUV free-electron-laser pulses. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032008 (2009).
- Rudenko, A., M. Kurka, L. Foucar, K.-U. Kühnel, J. Ullrich, H. Fukuzawa, X.-J. Liu, G. Prümper, M. Okunishi, K. Ueda, H. Iwayama, K. Nagaya, H. Murakami, A. Sugishima, M. Yao, K. Motomura, N. Saito, R. Feifel, A. Czasch, R. Dörner, A. Belkacem, M. Nagasono, A. Higashiya, T. Togashi, M. Yabashi, T. Ishikawa, H. Ohashi and H. Kimura: Multiple ionization of rare gas atoms by intense free electron laser radiation at 51 and 61 nm. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032021 (2009).
- Schabinger, B., S. Sturm, K. Blaum, W. Quint, A. Wagner and G. Werth: Creation of highly-charged calcium ions for the g-factor determination of the bound electron. In: Journal of Physics: Conference Series **163**, Seq. No.: 012108 (2009) 1-4.
- Schmidt, E. W., D. Bernhardt, J. Hoffmann, M. Lestinsky, D. V. Lukic, A. Müller, D. A. Orlov, D. W. Savin, S. Schippers and A. Wolf: Experimental rate coefficient for dielectronic recombination of neonlike iron forming sodiumlike iron. In: Journal of Physics - Conference Series **163**, 1, Seq. No.: 012028 (2009) 1-4.
- Schuh, M., F. Gerigk, J. Tüchtmantel and C. P. Welsch: Higher Order Mode Beam Breakup Limits in the Superconducting Cavities of the SPL. In: Joint Accelerator Conferences Website (JACoW) **SRF2009**, Seq. No.: THPPO100 (2009) 871-875.
- Schulz, M., R. Moshhammer, D. Fischer, M. Dürr, J. Ullrich, A. Hasan, M. F. Ciappina and T. Kirchner: Current status of kinematically complete studies of basic fragmentation processes in atomic systems. In: Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms **267**, 2 (2009) 187-191.
- Schulz, O.: The IceCube DeepCore. In: Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 783-786.
- Schuricke, M., G. Zhu, J. Steinmann, I. Ivanov, A. Kheifets, A. Grum-Grzhimailo, K. Bartschat, A. Dorn and J. Ullrich: Multi-photon ionization of lithium. In: Journal of Physics: Conference Series **194**, 3, Seq. No.: 032031 (2009) 1-1.
- Schwetz, T.: Can the DAMA/LIBRA Annual Modulation Signal be Explained by Dark Matter?. In: Acta Physica Polonica B **40**, 11 (2009) 3055-3062.
- Schwetz, T.: Physics Potential of Future Atmospheric Neutrino Searches. In: Nuclear Physics B - Proceedings Supplements **188** (2009) 158-163
- Schwetz, T.: Neutrino oscillations: Present status and outlook. In: Pramana **72**, 1 (2009) 119-129.
- Sieber, T., K. Blaum, M. Grieser, F. Laux, M. Lange, D. Orlov, R. von Hahn and A. Wolf: Intensity and profile measurement for low intensity ion beams in an electrostatic cryogenic storage ring. In: Diagnostics for Particle Accelerators, Seq. No.: weoa02 (2009).
- Simon, M. C., M. Schwarz, B. L. Schmitt, C. Beilmann, S. W. Epp, T. M. Baumann, K. Kubicek, R. Ginzler, S. G. Higgins, R. Klawitter, V. Mäckel, S. Bernitt, P. H. Mokler, J. Ullrich and J. R. Crespo López-Urrutia: Photoionization of ions in arbitrary charge states by synchrotron radiation in an electron beam ion trap. In: Journal of Physics: Conference Series **194**, Seq. No.: 012009 (2009) 1-6.
- Stelzer, J., A. Höcker, P. Speckmayer and H. Voss: Current Developments in TMVA - An Outlook to TMVA4. In: Proceedings of Science **ACAT08**, Seq. No.: 063 (2009) 1-8.
- Stützel, J., O. Novotný, S. Novotný, D. A. Orlov, H. Buhr, M. B. Mendes, C. Greene, J. Hoffmann, C. Krantz, S. Altevogt, M. H. Berg, D. Bing, M. Froese, M. Grieser, B. Jordon-Thaden, M. Lange, M. Lestinsky, A. Petrignani, A. Shornikov and A. Wolf: Fragmentation by electron recombination for HF<sup>+</sup> and CF<sup>+</sup>. In: Journal of Physics: Conference Series **194**, Seq. No.: 060228 (2009).
- Sturm, S., K. Blaum, M. Breitenfeldt, P. Delahaye, A. Herlert, L. Schweikhard and F. Wenander: Investigation of space-charge

- phenomena in gas-filled Penning traps. In: *Non-Neutral Plasma Physics VII: Workshop on Non-Neutral Plasmas 2008*, (Eds.) J. R. Danielson, T. S. Pedersen. AIP Conference Proceedings **1114**. American Institute of Physics, Melville, NY (2009) 185-190.
- Superina, G. et al. for the Hess Collaboration*: Discovery of VHE gamma-rays from the BL Lac object PKS 0548-322 with H.E.S.S.. In: *Proceedings of the 30th International Cosmic Ray Conference*, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México (2009) 913-916.
- Taylor, A.*: The CR connection(s) : UHE neutrinos and photons from UHECR sources. In: *International Journal of Modern Physics D* **18**, 10 (2009) 1571-1575.
- Taylor, A., S. Gabici, R. White, S. Casanova and F. Aharonian*: A reinvestigation into the diffuse neutrino flux from the inner Galaxy in light of new very high energy gamma-ray observations. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy*, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. (2009) 384-388.
- Taylor, A., A. Castro and E. Castillo-Ruiz*: Ultra High Energy Cosmic Ray, Neutrino, and Photon Propagation and the Multi-Messenger Approach. In: *Cosmic rays and Astrophysics: Proceedings of the 3rd School on Cosmic Rays and Astrophysics AIP Conference Proceedings* **1123**. American Institute of Physics, Melville, N.Y. (2009) 94-114.
- Terrier, R., F. Mattana, A. Djannati-Atai, V. Marandon, M. Renaud and F. Dubois*: Discovery of a pulsar wind nebula associated with IGR J18490-0000. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings* **1085**. AIP, Melville (2009) 312-315.
- Tibolla, O., N. Komin, K. Kosack and M. Naumann-Godo*: A new source discovered close to the Galactic Center: HESS J1741-302. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings* **1085**. AIP, Melville (2009) 249-252.
- Tibolla, O., N. Komin, K. Kosack and M. Naumann-Godo*: HESS J1741-302: a new source discovered in the Galactic Center region. In: *Proceedings of the 6th Edition: Bridging the Gap Between GeV and TeV AIP Conference Proceedings* **1112**. AIP, Melville (2009) 233-237.
- van Eldik, C.*: Very High Energy gamma-ray Observations of the Galactic Centre Region. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy*, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 146-156.
- van Eldik, C. et al. for the Hess Collaboration*: Localising the H.E.S.S. Galactic Centre point source. In: *Proceedings of the 30th International Cosmic Ray Conference*, (Eds.) Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia. Universidad Nacional Autónoma de México, México City, México (2009) 589-592.
- Vincent, P., M. Bitossi, G. Hermann, E. Delagnes, F. Feinstein, D. Gascon, J. Glicenstein, P. Nayman, R. Paoletti, R. G. Pegna and F. Toussenel*: High performances and low cost front-end electronics for the Cherenkov Telescope array. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy AIP Conference Proceedings* **1085**. AIP, Melville (2009) 890-893.
- Weidenmüller, H. A.*: Three Lectures on Random Matrices and the Nuclear Many-body Problem. In: *Proceedings of "Let's Face Chaos Through Nonlinear Dynamics" 7th International Summer School and Conference AIP Conference Proceedings* **1076**. AIP, Melville (2009) 262-281.
- Wenig, I., A. Foerster, S. Carrigan and W. Hofmann*: Statistical Search for Counterparts of Galactic VHE Gamma-Ray Sources. In: *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy*, (Eds.) Felix A. Aharonian et al. AIP Conference Proceedings **1085**. AIP, Melville (2009) 698-700.
- Wolf, A., D. A. Orlov, C. Krantz, M. Lestinsky, A. Shornikov, O. Novotny, J. Stützel, H. Buhr, M. Mendes, A. Petrucci, M. Grieser, S. Schippers, A. Müller, F. Ferro and E. Linderoth*: Low-energy collisions with atomic and molecular ions in a photocathode electron target. In: *Journal of Physics - Conference Series* **194**, Seq. No.: 012024 (2009).
- Zacharopoulou, O., D. Khangulyan and F. Aharonian*: Modification of high-energy gamma-ray spectrum of Blazars due to internal and intergalactic absorption. In: *International Journal of Modern Physics D* **18**, 10 (2009) 1661-1664.
- Zhang, S., J. Suske, D. Fischer, U. Kühnel, S. Hagmann, A. Voitkov, B. Najjari, A. Krauss, R. Moshhammer, J. Ullrich and M. Xinwen*: Electron angular distributions in He single ionization impact by H<sub>2</sub><sup>+</sup> ions at 1 MeV. In: *Journal of Physics - Conference Series* **163**, 1, Seq. No.: 012041 (2009).

## Journals Articles

- Abramowski, A., F. Acero, F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, J. Conrad, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, M. V. Fernandes, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hampf, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, C. C. Lu, V. Marandon, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, N. Nguyen, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Opitz, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzb主rg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, K. Valerius, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, A. Viana, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski, A. Zech and H. S. Zechlin: VHE gamma-ray emission of PKS 2155-304: spectral and temporal variability. In: *Astronomy & Astrophysics* **520**, Seq. No.: A83 (2010).
- Abramowski, A., F. Acero, F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, J. Conrad, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, M. V. Fernandes, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hampf, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, C. C. Lu, V. Marandon, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, N. Nguyen, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Opitz, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzb主rg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, J. Vink, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: First detection of VHE gamma-rays from SN 1006 by HESS. In: *Astronomy & Astrophysics* **516**, 1-7, Seq. No.: A62 (2010).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, M. Lemoine-Goumard, J. P. Lenain, T. Lohse, V. Marandon, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzb主rg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, J. Vink, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: VHE gamma-ray emission of PKS 2155-304: spectral and temporal variability. In: *Astronomy & Astrophysics* **520**, Seq. No.: A83 (2010).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huygnh, A. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzb主rg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, J. Vink, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Multi-wavelength observations of H 2356-309. In: *Astronomy & Astrophysics* **516**, Seq. No.: A56 (2010).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, M. Beilicke, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, J. Conrad, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, D. Hauser, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, M. Lemoine-Goumard, J. P. Lenain, T. Lohse, V. Marandon, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nekrassov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalletti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, R. de los Reyes, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzb主rg, S. Schwemmer, A. Shalchi, I. Sushch, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, J. Vink, M. Vivier, H. J. Volk, F. Volpe, S. Vorobiov, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: First detection of VHE gamma-rays from SN 1006 by HESS. In: *Astronomy & Astrophysics* **516**, 1-7, Seq. No.: A62 (2010).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, W. Benbow, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, L. M. Chounet, A. C. Clapson, G. Coignet, L. Costamante, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Forster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huygnh, A.

- Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektsov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalotti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, U. Schwanke, S. Schwarzburg, S. Schwenmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: PKS2005-489 at VHE: four years of monitoring with HESS and simultaneous multi-wavelength observations. In: *Astronomy & Astrophysics* **511**, Seq. No.: A52 (2010).
- Acero, F., F. Aharonian, A. G. Akhperjanian, G. Anton, U. B. de Almeida, A. R. Bazer-Bachi, Y. Becherini, B. Behera, K. Bernlohr, A. Bochow, C. Boisson, J. Bolmont, V. Borrel, I. Braun, J. Brucker, F. Brun, P. Brun, R. Buhler, T. Bulik, I. Busching, T. Boutelier, P. M. Chadwick, A. Charbonnier, R. C. G. Chaves, A. Cheesebrough, J. Conrad, L. M. Chounet, A. C. Clapson, G. Coignet, M. Dalton, M. K. Daniel, I. D. Davids, B. Degrange, C. Deil, H. J. Dickinson, A. Djannati-Atai, W. Domainko, L. O. Drury, F. Dubois, G. Dubus, J. Dyks, M. Dyrda, K. Egberts, P. Eger, P. Espigat, L. Fallon, C. Farnier, S. Fegan, F. Feinstein, A. Fiasson, A. Förster, G. Fontaine, M. Fussling, S. Gabici, Y. A. Gallant, L. Gerard, D. Gerbig, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, D. Goring, M. Hauser, S. Heinz, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, P. Hofverberg, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, C. Jahn, I. Jung, K. Katarzynski, U. Katz, S. Kaufmann, M. Kerschhaggl, D. Khangulyan, B. Khelifi, D. Keogh, D. Klochkov, W. Kluzniak, T. Kneiske, N. Komin, K. Kosack, R. Kossakowski, G. Lamanna, J. P. Lenain, T. Lohse, V. Marandon, O. Martineau-Huynh, A. Marcowith, J. Masbou, D. Maurin, T. J. L. McComb, M. C. Medina, J. Mehault, R. Moderski, E. Moulin, M. Naumann-Godo, M. de Naurois, D. Nedbal, D. Nektsov, B. Nicholas, J. Niemiec, S. J. Nolan, S. Ohm, J. F. Olive, E. D. Wilhelm, K. J. Orford, M. Ostrowski, M. Panter, M. P. Arribas, G. Pedalotti, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, A. Quirrenbach, B. C. Raubenheimer, M. Raue, S. M. Rayner, O. Reimer, M. Renaud, F. Rieger, J. Ripken, L. Rob, S. Rosier-Lees, G. Rowell, B. Rudak, C. B. Rulten, J. Ruppel, F. Ryde, V. Sahakian, A. Santangelo, R. Schlickeiser, F. M. Schock, A. Schonwald, U. Schwanke, S. Schwarzburg, S. Schwenmer, A. Shalchi, M. Sikora, J. L. Skilton, H. Sol, L. Stawarz, R. Steenkamp, C. Stegmann, F. Stinzing, G. Superina, I. Sushch, A. Szostek, P. H. Tam, J. P. Tavernet, R. Terrier, O. Tibolla, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, L. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, F. Volpe, S. J. Wagner, M. Ward, A. A. Zdziarski and A. Zech: Localizing the VHE gamma-ray source at the Galactic Centre. In: *Monthly Notices of the Royal Astronomical Society* **402**, 3, 1877-1882 (2010).
- Adulpravitchai, A., M. Lindner and P.-H. Gu: Connections between the seesaw model and dark matter searches. In: *Physical Review D* **82**, 7, 1-4, Seq. No.: 073013 (2010).
- Agari, M., C. Bauer, M. Britsch, W. Hofmann, S. Lochner, F. Maciuc, D. Popov, M. Schmelling, N. Smale, U. Trunk, and the LHCb Collaboration: Measurement of  $\sigma(\text{pp} \rightarrow \text{b anti-b X})$  at  $\sqrt{s}=7$  TeV in the forward region. In: *Physics Letters B* **694**, 209-216 (2010).
- Agari, M., C. Bauer, M. Britsch, W. Hofmann, S. Lochner, F. Maciuc, D. Popov, M. Schmelling, N. Smale, U. Trunk, and the LHCb Collaboration: Prompt K-S(0) production in pp collisions at root s=0.9 TeV. In: *Physics Letters B* **693**, 2, 69-80 (2010).
- Agarwal, J., M. Müller, W. T. Reach, M. V. Sykes, H. Boehnhardt and E. Grün: The dust trail of Comet 67P/Churyumov-Gerasimenko between 2004 and 2006. In: *Icarus* **207**, 2, 992-1012 (2010).
- Aharonian, F. A., S. R. Kelner and A. Y. Prosekin: Angular, spectral, and time distributions of highest energy protons and associated secondary gamma rays and neutrinos propagating through extragalactic magnetic and radiation fields. In: *Physical Review D* **82**, 4, Seq. No.: 043002 (2010).
- Aharonian, F. A. et al. (H.E.S.S. Collaboration): Discovery of VHE  $\gamma$ -rays from the BL Lacertae object PKS 0548-322. In: *Astronomy & Astrophysics* **521**, 1-6, Seq. No.: A69 (2010).
- Aharonian, F., A. G. Akhperjanian, A. R. Bazer-Bachi, M. Beilicke, W. Benbow, D. Berge, K. Bernlohr, C. Boisson, O. Bolz, V. Borrel, I. Braun, E. Brion, A. M. Brown, R. Buhler, I. Busching, T. Boutelier, S. Carrigan, P. M. Chadwick, L. M. Chounet, G. Coignet, R. Cornils, L. Costamante, B. Degrange, H. J. Dickinson, A. Djannati-Atafi, L. O. Drury, G. Dubus, K. Egberts, D. Emmanoulopoulos, P. Espigat, C. Farnier, F. Feinstein, E. Ferrero, A. Fiasson, G. Fontaine, S. Funk, S. Funk, M. Fussling, Y. A. Gallant, B. Giebels, J. F. Glicenstein, B. Gluck, P. Goret, C. Hadjichristidis, D. Hauser, M. Hauser, G. Heinzlmann, G. Henri, G. Hermann, J. A. Hinton, A. Hoffmann, W. Hofmann, M. Holleran, S. Hoppe, D. Horns, A. Jacholkowska, O. C. de Jager, E. Kendzorria, M. Kerschhaggl, B. Khelifi, N. Komin, K. Kosack, G. Lamanna, I. J. Latham, R. Le Gallou, A. Lemièrre, M. Lemoine-Goumard, T. Lohse, J. M. Martin, O. Martineau-Huynh, A. Marcowith, C. Masterson, G. Maurin, T. J. L. McComb, E. Moulin, M. de Naurois, D. Nedbal, S. J. Nolan, A. Noutsos, E. Nuss, J. P. Olive, K. J. Orford, J. L. Osborne, M. Panter, G. Pelletier, P. O. Petrucci, S. Pita, G. Puhlhofer, M. Punch, S. Ranchon, B. C. Raubenheimer, M. Raue, S. M. Rayner, J. Ripken, L. Rob, L. Rolland, S. Rosier-Lees, G. Rowell, V. Sahakian, A. Santangelo, L. Sauge, S. Schlenker, R. Schlickeiser, R. Schroder, U. Schwanke, S. Schwarzburg, S. Schwenmer, A. Shalchi, H. Sol, D. Spangler, F. Spanier, R. Steenkamp, C. Stegmann, G. Superina, P. H. Tam, J. P. Tavernet, R. Terrier, M. Tluczykont, C. van Eldik, G. Vasileiadis, C. Venter, J. P. Vialle, P. Vincent, M. Vivier, H. J. Volk, S. J. Wagner and M. Ward: Observations of the Sagittarius dwarf galaxy by the HESS experiment and search for a dark matter signal (vol 29, pg 55, 2008). In: *Astroparticle Physics* **33**, 4, 274-275 (2010).
- Aharonian, F. A. and A. M. Taylor: Limitations on the photo-disintegration process as a source of VHE photons. In: *Astroparticle Physics* **34**, 5, 258-266 (2010).
- Akhmedov, E. and J. Kopp: Neutrino oscillations: quantum mechanics vs. quantum field theory. In: *Journal of High Energy Physics* **2010**, 4, 1-41, Seq. No.: 0008 (2010).
- Akhmedov, E. and T. Schwetz: MiniBooNE and LSND data: non-standard neutrino interactions in a (3+1) scheme versus (3+2) oscillations. In: *Journal of High Energy Physics* **2010**, 10, 1-27, Seq. No.: 115 (2010).
- Al-Amri, M., J. Evers and M. S. Zubairy: Quantum teleportation of four-dimensional qudits. In: *Physical Review A* **82**, 2, Seq. No.: 022329 (2010).
- Albright, C., A. Dueck and W. Rodejohann: Possible alternatives to tri-bimaximal mixing. In: *The European Physical Journal C - Particles and Fields* **070**, 4, 1099-1110 (2010).
- Amblard, A., A. Cooray, P. Serra, P. Temi, E. Barton, M. Negrello, R. Auld, M. Baes, I. K. Baldry, S. Bamford, A. Blain, J. Bock, D. Bonfield, D. Burgarella, S. Buttiglione, E. Cameron, A. Cava, D. Clements, S. Croom, A. Dariush, G. de Zotti, S. Driver, J. Dunlop, L. Dunne, S. Dye, S. Eales, D. Frayer, J. Fritz, J. P. Gardner, J. Gonzalez-Nuevo, D. Herranz, D. Hill, A. Hopkins, D. H. Hughes, E. Ibar, R. J. Ivison, M. Jarvis, D. H. Jones, L. Kelvin, G. Lagache, L. Leeuw, J. Liske, M. Lopez-Caniego, J. Loveday, S. Maddox, M. Michalowski, P. Norberg, H. Parkinson, J. A. Peacock, C. Pearson, E. Pascale, M. Pohlen, C. Popescu, M. Prescott, A. Robotham, E. Rigby, G. Rodighiero, S. Samui, A. Sansom, D. Scott, S. Serjeant, R. Sharp, B. Sibthorpe,

- D. J. B. Smith, M. A. Thompson, R. Tuffs, I. Valtchanov, E. Van Kampen, P. van der Werf, A. Verma, J. Vieira and C. Vlahakis: Herschel-ATLAS: Dust temperature and redshift distribution of SPIRE and PACS detected sources using submillimetre colours. In: *Astronomy & Astrophysics* **518**, Seq. No.: L9 (2010).
- Andreotti, E., D. Budjas, R. Gonzalez de Orduna, M. Hult, M. Misiaszek and S. Schönert: Pulse shape analysis to reduce the background of BEGe detectors. In: *Journal of Radioanalytical and Nuclear Chemistry* **286**, 2, 477-482 (2010).
- Araudo, A. T., V. Bosch-Ramon and G. E. Romero: High-energy emission from jet-cloud interactions in AGNs. In: *International Journal of Modern Physics D* **19**, 6, 931-936 (2010).
- Artemyev, A. N., A. Surzhykov, S. Fritzsche, B. Najjari and A. B. Voitkiv: Target effects on the linear polarization of photons emitted in radiative electron capture by heavy ions. In: *Physical Review A* **82**, 2, 1-6, Seq. No.: 022716 (2010).
- Auer, S., G. Lawrence, E. Grün, H. Henkel, S. Kempf, R. Srama and Z. Sternovsky: A self-triggered dust trajectory sensor. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **622**, 1, 74-82 (2010).
- Aviv, O., Y. Toker, J. Rajput, D. Strasser, O. Heber, D. Schwalm, D. Zajfman and L. H. Andersen: Search for dimer emission from photoexcited Al-4(-). In: *Physical Review A* **82**, 3, Seq. No.: 035201 (2010).
- Baldry, I. K., A. S. G. Robotham, D. T. Hill, S. P. Driver, J. Liske, P. Norberg, S. P. Bamford, A. M. Hopkins, J. Loveday, J. A. Peacock, E. Cameron, S. M. Croom, N. J. G. Cross, I. F. Doyle, S. Dye, C. S. Frenk, D. H. Jones, E. van Kampen, L. S. Kelvin, R. C. Nichol, H. R. Parkinson, C. C. Popescu, M. Prescott, R. G. Sharp, W. J. Sutherland, D. Thomas and R. J. Tuffs: Galaxy And Mass Assembly (GAMA): the input catalogue and star-galaxy separation. In: *Monthly Notices of the Royal Astronomical Society* **404**, 1, 86-100 (2010).
- Barkov, M. V.: Hard X-Ray bursts in collapse of supermassive stars. In: *Astrophysical Bulletin* **65**, 3, 217-222 (2010).
- Barkov, M. V., F. A. Aharonian and V. Bosch-Ramon: Gamma-ray flares from red giant/jet interactions in active galactic nuclei. In: *Astrophysical Journal* **724**, 2, 1517-1523 (2010).
- Barkov, M. V. and A. N. Baushev: Accretion of a massive magnetized torus on a rotating black hole. In: *New Astronomy* **16**, 1, 46-56 (2010).
- Barnabé-Heider, M., D. Budjas, K. Gusev and S. Schönert: Operation and performance of a bare broad-energy germanium detector in liquid argon. In: *Journal of Instrumentation* **5**, 10, 1-11, Seq. No.: P1007 (2010).
- Barry, J. and W. Rodejohann: Neutrino Mass Sum-Rules in Flavor Symmetry Model. In: *Nuclear Physics B* **842**, 1, 33-50 (2010).
- Barry, J. and W. Rodejohann: Deviations from tribimaximal mixing due to the vacuum expectation value misalignment in A4 models. In: *Physical Review D* **81**, 9, 1-14, Seq. No.: 093002 (2010).
- Bassler, N., I. Kantemiris, P. Karaiskos, J. Engelke, M. H. Holzscheiter and J. B. Petersen: Comparison of optimized single and multifield irradiation plans of antiproton, proton and carbon ion beams. In: *Radiotherapy and Oncology* **95**, 1, 87-93 (2010).
- Batist, L., M. Gorska, H. Grawe, Z. Janas, M. Kavatsyuk, M. Karny, R. Kirchner, M. La Commara, I. Mukha, A. Plochocki and E. Roeckl: Systematics of Gamow-Teller beta decay "Southeast" of Sn-100. In: *European Physical Journal A* **46**, 1, 45-53 (2010).
- Beischer, B., H. Gast, R. Greim, W. Karpinski, T. Kirn, T. Nakada, G. R. Yearwood, S. Schael and M. Wlochal: A high-resolution scintillating fiber tracker with silicon photomultiplier array readout. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **622**, 3, 542-554 (2010).
- Bellini, G., J. Benziger, S. Bonetti, M. Buizza Avanzini, B. Caccianiga, L. Cadonati, F. Calaprice, C. Carraro, A. Chavarria, F. Dalnoki-Veress, D. D'Angelo, S. Davini, H. de Kerret, A. Derbin, A. Etenko, A. Chepurinov, K. Fomenko, D. Franco, C. Galbiati, S. Gazzana, C. Ghiano, M. Giammarchi, M. Goeger-Neff, A. Goretti, E. Gurdincerri, S. Hardy, A. Ianni, A. Ianni, M. Joyce, Y. Koshio, G. Korga, D. Kryn, M. Laubenstein, M. Leung, T. Lewke, E. Litvinovich, B. Loer, P. Lombardi, L. Ludhova, I. Machulin, S. Manecki, W. Maneschg, G. Manuzio, Q. Meindl, E. Meroni, L. Miramonti, M. Misiaszek, D. Montanari, V. Muratova, L. Oberauer, M. Obolensky, F. Ortica, M. Pallavicini, L. Papp, L. Perasso, S. Perasso, A. Pocar, R. S. Raghavan, G. Ranucci, A. Razeto, A. Re, B. Ricci, P. Risso, A. Romani, D. Rountree, A. Sabelnikov, R. Saldanha, C. Salvo, S. Schönert, H. Simgen, M. Skorokhvatov, O. Smirnov, A. Sotnikov, S. Sukhotin, Y. Suworov, R. Tartaglia, G. Testera, D. Vinaud, R. B. Vogelaar, F. von Feilitzsch, J. Winter, M. Wojcik, A. Wright, M. Wurm, J. Xu, O. Zaimidoroga, S. Zavatarelli and G. Zuzel: Measurement of the solar 8B neutrino rate with a liquid scintillator target and 3 MeV energy threshold in the Borexino detector. In: *Physical Review D* **82**, 3, 1-10, Seq. No.: 033006 (2010).
- Bellini, G., J. Benziger, S. Bonetti, M. Buizza Avanzini, B. Caccianiga, L. Cadonati, F. Calaprice, C. Carraro, A. Chavarria, F. Dalnoki-Veress, D. D'Angelo, S. Davini, H. de Kerret, A. Derbin, A. Etenko, G. Fiorentini, K. Fomenko, D. Franco, C. Galbiati, S. Gazzana, C. Ghiano, M. Giammarchi, M. Goeger-Neff, A. Goretti, E. Gurdincerri, S. Hardy, A. Ianni, A. Ianni, M. Joyce, V. V. Kobychov, Y. Koshio, G. Korga, D. Kryn, M. Laubenstein, M. Leung, T. Lewke, E. Litvinovich, B. Loer, P. Lombardi, L. Ludhova, I. Machulin, S. Manecki, W. Maneschg, G. Manuzio, Q. Meindl, E. Meroni, L. Miramonti, M. Misiaszek, D. Montanari, V. Muratova, L. Oberauer, M. Obolensky, F. Ortica, M. Pallavicini, L. Papp, L. Perasso, S. Perasso, A. Pocar, R. S. Raghavan, G. Ranucci, A. Razeto, A. Re, B. Ricci, P. Risso, A. Romani, D. Rountree, A. Sabelnikov, R. Saldanha, C. Salvo, S. Schönert, H. Simgen, M. Skorokhvatov, O. Smirnov, A. Sotnikov, S. Sukhotin, Y. Suworov, R. Tartaglia, G. Testera, D. Vinaud, R. B. Vogelaar, F. von Feilitzsch, J. Winter, M. Wojcik, A. Wright, M. Wurm, J. Xu, O. Zaimidoroga, S. Zavatarelli and G. Zuzel: Observation of geo-neutrinos. In: *Physics Letters B* **687**, 4-5, 299-304 (2010).
- Bellini, G., S. Bonetti, M. B. Avanzini, B. Caccianiga, D. D'Angelo, D. Franco, M. Giammarchi, P. Lombardi, L. Ludhova, E. Meroni, L. Miramonti, L. Perasso, G. Ranucci, A. Re, Y. Suworov, J. Benziger, L. Cadonati, A. Pocar, F. Calaprice, A. Chavarria, F. Dalnoki-Veress, C. Galbiati, A. Goretti, A. Ianni, M. Leung, B. Loer, R. Saldanha, J. Xu, C. Carraro, S. Davini, E. Guardincerri, G. Manuzio, M. Pallavicini, S. Perasso, P. Risso, C. Salvo, G. Testera, S. Zavatarelli, H. de Kerret, D. Kryn, M. Obolensky, D. Vignaud, A. Derbin, V. Muratova, A. Etenko, E. Litvinovich, I. Machulin, A. Sabelnikov, M. Skorokhvatov, S. Sukhotin, K. Fomenko, O. Smirnov, A. Sotnikov, O. Zaimidoroga, S. Gazzana, C. Ghiano, A. Ianni, G. Korga, D. Montanari, A. Razeto, R. Tartaglia, M. Goeger-Neff, T. Lewke, Q. Meindl, L. Oberauer, F. von Feilitzsch, Y. Winter, M. Wurm, C. Grieb, S. Hardy, M. Joyce, S. Manecki, L. Papp, R. S. Raghavan, D. Rountree, R. B. Vogelaar, W. Maneschg, S. Schönert, H. Simgen, G. Zuzel, M. Misiaszek, M. Wojcik, F. Ortica and A. Romani: New experimental limits on the Pauli-forbidden transitions in C-12 nuclei obtained with 485 days Borexino data. In: *Physical Review C* **81**, 3, Seq. No.: 034317 (2010).
- Berezhko, E. G. and H. J. Völk: Nonthermal and thermal emission from the supernova remnant RX J1713.7-3946. In: *Astronomy and Astrophysics* **511**, February-March 2010, 1-6, Seq. No.: A34 (2010).
- Bernard, J. P., D. Paradis, D. J. Marshall, L. Montier, G. Lagache, R. Paladini, M. Veneziani, C. M. Brunt, J. C. Mottram, P. Martin, I. Ristorcelli, A. Noriega-Crespo, M. Compiegne, N.

- Flagey, L. D. Anderson, C. C. Popescu, R. Tuffs, W. Reach, G. White, M. Benedetti, L. Calzoletti, A. M. DiGiorgio, F. Faustini, M. Juvela, C. Joblin, G. Joncas, M. A. Mivilles-Deschenes, L. Olmi, A. Traficante, F. Piacentini, A. Zavagno and S. Molinari: Dust temperature tracing the ISRF intensity in the Galaxy. In: *Astronomy & Astrophysics* **518**, Seq. No.: L88 (2010).
- Berrah, N., J. Bozek, J. T. Costello, S. Düsterer, L. Fang, J. Feldhaus, H. Fukuzawa, M. Hoener, Y. H. Jiang, P. Johnsson, E. T. Kennedy, M. Meyer, R. Moshhammer, P. Radcliffe, M. Richter, A. Rouzee, A. Rudenko, A. A. Sorokin, K. Tiedtke, K. Ueda, J. Ullrich and M. J. J. Vrakking: Non-linear processes in the interaction of atoms and molecules with intense EUV and X-ray fields from SASE free electron lasers (FELs). In: *Journal of Modern Optics* **57**, 12, 1015-1040 (2010).
- Bezrukov, F. and D. Gorbunov: Light inflaton Hunter's Guide. In: *Journal of High Energy Physics* **2010**, 5, 1-22, Seq. No.: 010 (2010).
- Bezrukov, F., H. Hettmansperger and M. Lindner: keV sterile neutrino dark matter in gauge extensions of the standard model. In: *Physical Review D* **81**, 8, 1-13, Seq. No.: 085032 (2010).
- Bischoff, A., M. Jersek, T. Grau, B. Mirtic, U. Ott, J. Kucera, M. Horstmann, M. Laubenstein, S. Herrmann, Z. Randa, M. Weber and G. Heusser: Jesenice (L6)-A recent meteorite fall from Slovenia. In: *Meteoritics and Planetary Science* **45**, Suppl. Suppl. S, A15-A15 (2010).
- Blaum, K., Y. N. Novikov and G. Werth: Penning traps as a versatile tool for precise experiments in fundamental physics. In: *Contemporary Physics* **51**, 2, 149-175 (2010).
- Block, M., D. Ackermann, K. Blaum, C. Droese, M. Dworschak, M. Eibach, S. Eliseev, T. Fleckenstein, E. Haettner, F. Herfurth, F. P. Heßberger, S. Hofmann, J. Ketelaer, J. Ketter, H.-J. Kluge, G. Marx, M. Mazzocco, Y. N. Novikov, W. R. Plaß, A. Popeko, S. Rahaman, D. Rodríguez, C. Scheidenberger, L. Schweikhart, P. G. Thirolf, G. K. Vorobyev and C. Weber: Penning trap mass measurements of transfermium elements with SHIPTRAP. In: *Hyperfine Interactions* **196**, 1-3, 225-231 (2010).
- Block, M., D. Ackermann, K. Blaum, C. Droese, M. Dworschak, S. Eliseev, T. Fleckenstein, E. Haettner, F. Herfurth, F. P. Heßberger, S. Hofmann, J. Ketelaer, J. Ketter, H.-J. Kluge, G. Marx, M. Mazzocco, Y. N. Novikov, W. R. Plaß, A. Popeko, S. Rahaman, D. Rodríguez, C. Scheidenberger, L. Schweikhard, P. G. Thirolf, G. K. Vorobyev and C. Weber: Direct mass measurements above uranium bridge the gap to the island of stability. In: *Nature* **463**, 7282, 785-788 (2010).
- Bogovalov, S. V. and S. R. Kelner: Accretion and plasma outflow from dissipationless discs. In: *International Journal of Modern Physics D* **19**, 3, 339-365 (2010).
- Bordas, P., V. Bosch-Ramon and J. M. Paredes: Gamma-rays from SS 433 and its interaction with the W50 nebula. In: *International Journal of Modern Physics D* **19**, 6, 749-755 (2010).
- Bosch, F. and Y. A. Litvinov: Observation of non-exponential orbital electron-capture decay of stored hydrogen-like ions. In: *Progress in Particle and Nuclear Physics* **64**, 2, 435-438 (2010).
- Bosch-Ramon, V.: Secondary emission behind the radio outflows in gamma-ray binaries. In: *International Journal of Modern Physics D* **19**, 6, 741-747 (2010).
- Bosch-Ramon, V., R. D. Reyes, et al. (MAGIC Collaboration): MAGIC TeV gamma-ray observations of Markarian 421 during multiwavelength campaigns in 2006. In: *Astronomy & Astrophysics* **519**, Seq. No.: A32 (2010).
- Bosch-Ramon, V., R. D. Reyes, et al. (MAGIC Collaboration): MAGIC gamma-ray telescope observation of the Persues cluster of galaxies : implications for cosmic rays, dark matter, and NGC 1275. In: *Astrophysical Journal* **710**, 1, 634-647 (2010).
- Breitenfeldt, M., C. Borgmann, G. Audi, S. Baruah, D. Beck, K. Blaum, C. Böhm, R. B. Cakirli, R. F. Casten, P. Delahaye, M. Dworschak, S. George, F. Herfurth, A. Herlert, A. Kellerbauer, M. Kowalska, D. Lunney, E. Minaya-Ramírez, S. Naimi, D. Neidherr, M. Rosenbusch, R. Savoreux, S. Schwarz, L. Schweikhart and C. Yazidjian: Approaching the N = 82 shell closure with mass measurements of Ag and Cd isotopes. In: *Physical Review C* **81**, 3, 1-10, Seq. No.: 034313 (2010).
- Budjas, D., C. Cattadori, A. D'Andragora, A. Pullia, S. Riboldi and F. Zocca: Cryogenic Performance of a Low-Noise JFET-CMOS Preamplifier for HPGe Detectors. In: *IEEE Transactions on Nuclear Science* **57**, 2, 737-742 (2010).
- Buhr, H., M. B. Mendes, O. Novotný, D. Schwalm, M. H. Berg, D. Bing, O. Heber, C. Krantz, D. A. Orlov, M. L. Rappaport, T. Sorg, J. Stützel, J. Varju, A. Wolf and D. Zajfman: Energy-sensitive imaging detector applied to the dissociative recombination of D<sub>2</sub>H<sup>+</sup>. In: *Physical Review A* **81**, 6, 1-10, Seq. No.: 062702 (2010).
- Buhr, H., J. Stützel, M. B. Mendes, O. Novotný, D. Schwalm, M. H. Berg, D. Bing, M. Grieser, O. Heber, C. Krantz, S. Menk, S. Novotny, D. Orlov, A. Petrigiani, M. L. Rappaport, R. Repnow, D. Zajfman and A. Wolf: Hot Water Molecules from Dissociative Recombination of D<sub>3</sub>O<sup>+</sup> with Cold Electrons. In: *Physical Review Letters* **105**, 10, 1-4, Seq. No.: 103202 (2010).
- Cakirli, R. B., K. Blaum and R. F. Casten: Indication of a mini-valence Wigner-like energy in heavy nuclei. In: *Physical Review C* **82**, 6, 1-5, Seq. No.: 061304(R) (2010).
- Cakirli, R. B., R. Casten and K. Blaum: Correlations of experimental isotope shifts with spectroscopic and mass observables. In: *Physical Review C* **82**, 6, 1-5, Seq. No.: 061306(R) (2010).
- Calogovic, J., C. Albert, F. Arnold, J. Beer, L. Desorgher and E. O. Flueckiger: Sudden cosmic ray decreases: No change of global cloud cover. In: *Geophysical Research Letters* **37**, 3, Seq. No.: L03802 (2010).
- Casanova, S., F. A. Aharonian, Y. Fukui, S. Gabici, D. I. Jones, A. Kawamura, T. Onishi, G. Rowell, H. Sano, K. Torii and H. Yamamoto: Molecular Clouds as Cosmic-Ray Barometers. In: *Publications of the Astronomical Society of Japan* **62**, 3, 769-777 (2010).
- Chapman, H., J. Ullrich and J. M. Rost: Intense X-ray science: the first 5 years of FLASH. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **43**, 19, Seq. No.: 190201 (2010).
- Cheal, B., J. Billowes, M. L. Bissell, K. Blaum, F. C. Charlwood, K. T. Flanagan, D. H. Forest, S. Fritzsche, C. Geppert, A. Jokinen, M. Kowalska, A. Krieger, J. Krämer, E. Mané, I. D. Moore, R. Neugart, G. Neyens, W. Nörtershäuser, M. M. Rajabali, M. Schug, H. H. Stroke, P. Vingerhoets, D. T. Yordanov and M. Zákova: Discovery of a long-lived low-lying isomeric state in 80Ga. In: *Physical Review C* **82**, 5, 1-5, Seq. No.: 051302 (2010).
- Cheal, B., E. Mané, J. Billowes, M. L. Bissell, K. Blaum, B. A. Brown, F. C. Charlwood, K. T. Flanagan, D. H. Forest, C. Geppert, M. Honma, A. Jokinen, M. Kowalska, A. Krieger, J. Krämer, I. D. Moore, R. Neugart, G. Neyens, W. Nörtershäuser, M. Schug, H. H. Stroke, P. Vingerhoets, D. T. Yordanov and M. Zákova: Nuclear Spins and Moments of Ga Isotopes Reveal Sudden Structural Changes between N=40 and N=50. In: *Physical Review Letters* **104**, 25, 1-5, Seq. No.: 252502 (2010).
- Chen, L., W. R. Plaß, H. Geissel, R. Knöbel, C. Kozhuharov, Y. A. Litvinov, Z. Patyk, C. Scheidenberger, K. Siegien-Iwaniuk, B. Sun, H. Weick, K. Beckert, P. Beller, F. Bosch, D. Boutin, L. Caceres, J. J. Carroll, D. M. Cullen, B. Franke, J. Gerl, M. Gorska, G. A. Jones, A. Kishada, J. Jurcewicz, S. A. Litvinov, Z. Liu, S. Mandal, F. Montes, G. Münzenberg, F. Nolden, T. Ohtsubo, Z. Podolyak, R. Propri, S. Rigby, N. Saito, T. Saito, M. Shindo, M. Steck, P. Ugorowski, P. M. Walker, S. Williams,

- M. Winkler, H.-J. Wollersheim, T. Yamaguchio and I. J. Cullen: Discovery and investigation of heavy neutron-rich isotopes with time-resolved Schottky spectrometry in the element range from thallium to actinium. In: *Physics Letters B* **691**, 5, 234-237 (2010).
- Chou, H. S. and J. Evers: Dressed-Atom Multiphoton Analysis of Anomalous Electromagnetically Induced Absorption. In: *Physical Review Letters* **104**, 21, Seq. No.: 213602 (2010).
- Ciappina, M. F., T. Kirchner, M. Schulz, D. Fischer, R. Moshhammer and J. Ullrich: Distorted Wave Theories Applied to Double Ionization by Ion Impact: Simulation of Higher-Order Processes. In: *Journal of Atomic, Molecular and Optical Physics* **2010**, 1-7, Seq. No.: 231329 (2010).
- Cluver, M. E., P. N. Appleton, F. Boulanger, P. Guillard, P. Ogle, P. A. Duc, N. Lu, J. Rasmussen, W. T. Reach, J. D. Smith, R. Tuffs, C. K. Xu and M. S. Yun: Powerful H-2 line cooling in Stephan's quintet : I. mapping the significant cooling pathways in group-wide shocks. In: *Astrophysical Journal* **710**, 1, 248-264 (2010).
- Colnard, C., A. Gross, S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (*IceCube Collaboration*): The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. In: *Astroparticle Physics* **34**, 1, 48-58 (2010).
- Colnard, C., A. Gross, S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo, M. Voge, M. Wolf et al. (*IceCube Collaboration*): Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. In: *European Physical Journal C* **69**, 3-4, 361-378 (2010).
- Colnard, C., A. Gross, S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo, M. Voge, M. Wolf et al. (*IceCube Collaboration*): Measurement of the anisotropy of cosmic-ray arrival directions with Icecube. In: *Astrophysical Journal Letters* **718**, 2, L194-L198 (2010).
- Colnard, C., A. Gross, S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (*IceCube Collaboration*): First search for extremely high energy cosmogenic neutrinos with the IceCube Neutrino Observatory. In: *Physical Review D* **82**, 7, Seq. No.: 072003 (2010).
- Colnard, C., A. Gross, S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (*IceCube Collaboration*): Calibration and characterization of the IceCube photomultiplier tube. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **618**, 1-3, 139-152 (2010).
- Crocker, R. M., N. F. Bell, C. Balazs and D. I. Jones: Radio and gamma-ray constraints on dark matter annihilation in the Galactic center. In: *Physical Review D* **81**, 6, Seq. No.: 063516 (2010).
- Crocker, R. M., D. I. Jones, F. Melia, J. Ott and R. J. Protheroe: A lower limit of 50 microgauss for the magnetic field near the Galactic Centre. In: *Nature* **463**, 7277, 65-67 (2010).
- Cuzzi, J. N., J. A. Burns, S. Charnoz, R. N. Clark, J. E. Colwell, L. Dones, L. W. Esposito, G. Filacchione, R. G. French, M. M. Hedman, S. Kempf, E. A. Marouf, C. D. Murray, P. D. Nicholson, C. C. Porco, J. Schmidt, M. R. Showalter, L. J. Spilker, J. N. Spitale, R. Srama, M. Sremcevic, M. S. Tiscareno and J. Weiss: An Evolving View of Saturn's Dynamic Rings. In: *Science* **327**, 5972, 1470-1475 (2010).
- Dietz, B., T. Friedrich, H. L. Harney, M. Miski-Oglu, A. Richter, F. Schafer and H. A. Weidenmüller: Quantum chaotic scattering in microwave resonators. In: *Physical Review E* **81**, 3, Seq. No.: 036205 (2010).
- Dietz, B., H. L. Harney, A. Richter, F. Schaefer and H. A. Weidenmüller: Cross-section fluctuations in chaotic scattering. In: *Physics Letter B* **685**, 4-5, 263-269 (2010).
- Dietz, B. and H. A. Weidenmüller: Photonuclear reactions induced by intense short laser pulses. In: *Physics Letters B* **693**, 3, 316-322 (2010).
- Di Piazza, A., K. Z. Hatsagortsyan and C. H. Keitel: Quantum Radiation Reaction Effects in Multiphoton Compton Scattering. In: *Physical Review Letters* **105**, 22, 1-4, Seq. No.: 220403 (2010).
- Di Piazza, A., E. Lötstedt, A. I. Milstein and C. H. Keitel: Effect of a strong laser field on electron-positron photoproduction by relativistic nuclei. In: *Physical Review A* **81**, 6, Seq. No.: 062122 (2010).
- Di Piazza, A. and A. I. Milstein: High-energy electron-positron photoproduction cross section close to the end of the spectrum. In: *Physical Review A* **82**, 4, Seq. No.: 042106 (2010).
- Di Piazza, A., A. I. Milstein and C. Müller: Polarization of the electron and positron produced in combined Coulomb and strong laser fields. In: *Physical Review A* **82**, 6, 1-7, Seq. No.: 062110 (2010).
- Domesle, C., B. Jordon-Thaden, L. Lammich, M. Förstel, U. Hergenhanh, A. Wolf and H. B. Pedersen: Photoelectron spectroscopy of O- at 266 nm: Ratio of ground- and excited-state atomic oxygen production and channel-resolved photoelectron anisotropy parameters. In: *Physical Review A* **82**, 3, 1-6, Seq. No.: 033402 (2010).
- Düick, A., S. Petcov and W. Rodejohann: Leptonic unitary triangles and boomerangs. In: *Physical Review D* **82**, 1, 1-6, Seq. No.: 013005 (2010).
- Duplissy, J., M. B. Enghoff, K. L. Aplin, F. Arnold, H. Aufmhoff, M. Avngaard, U. Baltensperger, T. Bondo, R. Bingham, K. Carslaw, J. Curtius, A. David, B. Fastrup, S. Gagne, F. Hahn, R. G. Harrison, B. Kellett, J. Kirkby, M. Kulmala, L. Laakso, A. Laaksonen, E. Lillestol, M. Lockwood, J. Makela, V. Makhmutov, N. D. Marsh, T. Nieminen, A. Onnela, E. Pedersen, J. O. P. Pedersen, J. Polny, U. Reichl, J. H. Seinfeld, M. Sipila, Y. Stozhkov, F. Stratmann, H. Svensmark, J. Svensmark, R. Veenhof, B. Verheggen, Y. Viisanen, P. E. Wagner, G. Wehrle, E. Weingartner, H. Wex, M. Wilhelmsson and P. M. Winkler: Results from the CERN pilot CLOUD experiment. In: *Atmospheric Chemistry and Physics* **10**, 4, 1635-1647 (2010).
- Dworschak, M., M. Block, D. Ackermann, G. Audi, K. Blaum, C. Droese, S. Eliseev, T. Fleckenstein, E. Haettner, F. Herfurth, F. P. Heßberger, F. Hofman, J. Ketelaer, J. Ketter, H.-J. Kluge, G. Marx, M. Mazzocco, Y. N. Novikov, R. W. Plaf, A. Popeko, S. Rahaman, D. Rodriguez, C. Scheidenberger, L. Schweikhard, P. G. Thirolf, G. K. Vorobyev, M. Wang and C. Weber: Penning trap mass measurements on nobelium isotopes. In: *Physical Review C* **81**, 6, 1-9, Seq. No.: 064312 (2010).
- Dworschak, M., M. Block, K. Blaum and L. Schweikhard: Schwergewichte auf der Waage. In: *Physik in unserer Zeit* **41**, 5, 215-216 (2010).
- Dye, S., L. Dunne, S. Eales, D. J. B. Smith, A. Amblard, R. Auld, M. Baes, I. K. Baldry, S. Bamford, A. W. Blain, D. G. Bonfield, M. Bremer, D. Burgarella, S. Buttiglione, E. Cameron, A. Cava, D. L. Clements, A. Cooray, S. Croom, A. Dariush, G. de Zotti, S. Driver, J. S. Dunlop, D. Frazer, J. Fritz, J. P. Gardner, H. L. Gomez, J. Gonzalez-Nuevo, D. Herranz, D. Hill, A. Hopkins, E. Ibar, R. J. Ivison, M. J. Jarvis, D. H. Jones, L. Kelvin, G. Lagache, L. Leeuw, J. Liske, M. Lopez-Caniago, J. Loveday, S. Maddox, M. J. Michalowski, M. Negrello, P. Norberg, M. J. Page, H. Parkinson, E. Pascale, J. A. Peacock, M. Pohlen, C. Popescu, M. Prescott, D. Rigopoulou, A. Robotham, E. Rigby, G. Rodighiero, S. Samui, D. Scott, S. Serjeant, R. Sharp, B. Sibthorpe, P. Temi, M. A. Thompson, R. Tuffs, I. Valtchanov, P. P. van der Werf, E. van Kampen and A. Verma: Herschel-ATLAS: Evolution of the 250  $\mu$ m luminosity function out to  $z = 0.5$ . In: *Astronomy & Astrophysics* **518**, Seq. No.: L10 (2010).
- Eales, S., L. Dunne, D. Clements, A. Cooray, G. De Zotti, S. Dye, R. Ivison, M. Jarvis, G. Lagache, S. Maddox, M. Negrello, S. Serjeant, M. A. Thompson, E. Van Kampen, A. Amblard, P. Andreani, M. Baes, A. Beelen, G. J. Bendo, D. Benford, F.

- Bertoldi, J. Bock, D. Bonfield, A. Boselli, C. Bridge, V. Buat, D. Burgarella, R. Carlberg, A. Cava, P. Chantial, S. Charlot, N. Christopher, P. Coles, L. Cortese, A. Dariush, E. da Cunha, G. Dalton, L. Danese, H. Dannerbauer, S. Driver, J. Dunlop, L. Fan, D. Farrah, D. Frayer, C. Frenk, J. Geach, J. Gardner, H. Gomez, J. Gonzalez-Nuevo, E. Gonzalez-Solares, M. Griffin, M. Hardcastle, E. Hatziminaoglou, D. Herranz, D. Hughes, E. Ibar, W. S. Jeong, C. Lacey, A. Lapi, A. Lawrence, M. Lee, L. Leeuw, J. Liske, M. Lopez-Caniego, T. Muller, K. Nandra, P. Panuzzo, A. Papageorgiou, G. Patanchon, J. Peacock, C. Pearson, S. Phillipps, M. Pohlen, C. Popescu, S. Rawlings, E. Rigby, M. Rigopoulou, A. Robotham, G. Rodighiero, A. Sansom, B. Schulz, D. Scott, D. J. B. Smith, B. Sibthorpe, I. Smail, J. Stevens, W. Sutherland, T. Takeuchi, J. Tedds, P. Temi, R. Tufts, M. Trichas, M. Vaccari, I. Valtchanov, P. van der Werf, A. Verma, J. Vieria, C. Vlahakis and G. J. White: The Herschel ATLAS. In: Publications of the Astronomical Society of the Pacific **122**, 891, 499-515 (2010).
- Egberts, J. and C. P. Welsch: Flexible core masking technique for beam halo measurements with high dynamic range. In: Journal of Instrumentation **5**, Seq. No.: P04010 (2010).
- Eger, P., W. Domainko and A.-C. Clapson: Chandra detection of diffuse X-ray emission from the globular cluster Terzan 5. In: Astronomy & Astrophysics **513**, 12, 1-6, Seq. No.: A66 (2010).
- Eibach, M., T. Beyer, K. Blaum, M. Block, K. Eberhardt, F. Herfurth, C. Geppert, J. Ketelaer, J. Ketter, J. Krämer, A. Krieger, K. Knuth, S. Nagy, W. Nörtershäuser and C. Smorra: Transport of fission products with a helium gas-jet at TRIGA-SPEC. In: Nuclear Instruments and Methods in Physics Research A **613**, 2, 226-231 (2010).
- Eiroa, C., D. Fedele, J. Maldonado, B. M. Gonzalez-Garcia, J. Rodmann, A. M. Heras, G. L. Pilbratt, J. C. Augereau, A. Mora, B. Montesinos, D. Ardila, G. Bryden, R. Liseau, K. Stapelfeldt, R. Launhardt, E. Solano, A. Bayo, O. Absil, M. Arevalo, D. Barrado, C. Beichmann, W. Danchi, C. del Burgo, S. Ertel, M. Fridlund, M. Fukagawa, R. Gutierrez, E. Grün, I. Kamp, A. Krivov, J. Lebreton, T. Lohme, R. Lorente, J. Marshall, R. Martinez-Arnaiz, G. Meeus, D. Montes, A. Morbidelli, S. Muller, H. Mutschke, T. Nakagawa, G. Olofsson, I. Ribas, A. Roberge, J. Sanz-Forcada, P. Thebault, H. Walker, G. J. White and S. Wolf: Cold DUST around NEARBY Stars (DUNES). First results A resolved exo-Kuiper belt around the solar-like star zeta(2) Ret. In: Astronomy & Astrophysics **518**, Seq. No.: L131 (2010).
- Eliseev, S., C. Böhm, D. Beck, K. Blaum, M. Breitenfeldt, V. N. Fedosseev, S. George, F. Herfurth, A. Herlert, H.-J. Kluge, M. Kowalska, D. Lunney, S. Naimi, D. Neidherr, Y. N. Novikov, M. Rosenbusch, L. Schweikhard, S. Schwarz, M. Seliverstov and K. Zuber: Direct mass measurements of  $^{194}\text{Hg}$  and  $^{194}\text{Au}$ : A new route to the neutrino mass determination?. In: Physics Letters B **693**, 4, 426-429 (2010).
- Epp, S. W., J. R. Crespo López-Urrutia, M. C. Simon, T. Baumann, G. Brenner, R. Ginzler, N. Guerassimova, V. Mäkel, P. H. Mokler, B. L. Schmitt, H. Tawara and J. Ullrich: X-ray laser spectroscopy of highly charged ions at FLASH. In: Journal of Physics B: Atomic, Molecular and Optical Physics **43**, 19, 1-17, Seq. No.: 194008 (2010).
- Esperante, D., P. Rodriguez, A. Buchler, A. Keune, A. Bay, F. Blanc, M. O. Bettler, G. Conti, V. Fave, R. Frei, N. Gueissaz, G. Haefeli, J. Luisier, R. Muresan, T. Nakada, M. Needham, L. Nicolas, M. Knecht, A. Perrin, C. Potterat, O. Schneider, M. Tran, C. Bauer, M. Britsch, W. Hofmann, F. Maciuc, M. Schmelling, H. Voss, U. Straumann, J. Anderson, N. Chiapolini, V. Hangartner, C. Salzmann, S. Steiner, O. Steinkamp, J. van Tilburg, M. Tobin, A. Vollhardt, B. Adeva, J. F. Pazos, A. Gallas, A. P. Alvarez, E. P. Trigo, M. P. Casaus, J. Saborido, P. Vazquez, A. Gong, V. Iakovenko, O. Okhrimenko and V. Pugatch: LHCb Silicon Tracker DAQ and ECS Online Systems. In: IEEE Transactions on Nuclear Science **57**, 2, 569-576 (2010).
- Fave, V., A. Bay, F. Blanc, M. O. Bettler, G. Conti, R. Frei, N. Gueissaz, G. Haefeli, A. Keune, J. Luisier, R. Muresan, T. Nakada, M. Needham, L. Nicolas, M. Knecht, C. Potterat, O. Schneider, M. Tran, C. Bauer, M. Britsch, W. Hofmann, F. Maciuc, M. Schmelling, H. Voss, J. Anderson, A. Buechler, N. Chiapolini, V. Hangartner, C. Salzmann, S. Steiner, O. Steinkamp, U. Straumann, J. van Tilburg, A. Vollhardt, B. Adeva, J. F. Pazos, V. Iakovenko, O. Okhrimenko and V. Pugatch: First experience and results with the LHCb Silicon Tracker. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **617**, 1-3, 538-540 (2010).
- Feruglio, F., C. Hagedorn, Y. Lin and L. Merlo: Tri-bimaximal neutrino mixing and quark masses from a discrete flavour symmetry (vol 775, pg 120, 2007). In: Nuclear Physics B **836**, 1-2, 127-128 (2010).
- Fiedler, V., F. Arnold, S. Ludmann, A. Minikin, L. Pirjola, A. Dörnbrack and H. Schlager: African biomass burning plumes over the Atlantic: Aircraft based measurements and implications for  $\text{H}_2\text{SO}_4$  and  $\text{HNO}_3$  mediated smoke particle activation. In: Atmospheric Chemistry and Physics Discussions **10**, 3, 7699-7743 (2010).
- Fischer, A., C. Canali, U. Warring, A. Kellerbauer and S. Fritzsche: First Optical Hyperfine Structure Measurement in an Atomic Anion. In: Physical Review Letters **104**, 7, 1-4, Seq. No.: 073004 (2010).
- Fischer, B., M. Kremer, T. Pfeifer, V. Sharma, B. Feuerstein, U. Thumm, C. D. Schröter, R. Moshhammer and J. Ullrich: Steering the Electron in  $\text{H}_2^+$  by Nuclear Wave Packet Dynamics. In: Physical Review Letters **105**, 22, 1-4, Seq. No.: 223001 (2010).
- Fischer, D., M. Gudmundsson, Z. Berenyi, N. Haag, H. A. B. Johansson, D. Misra, P. Reinhard, A. Kallberg, A. Simonsson, K. Stochkel, H. Cederquist and H. T. Schmidt: Importance of Thomas single-electron transfer in fast p-He collisions. In: Physical Review A **81**, 1, Seq. No.: 012714 (2010).
- Flanagan, K. T., P. Vingerhoets, M. L. Bissell, K. Blaum, B. A. Brown, B. Cheal, M. De Rydt, D. H. Forest, C. Geppert, M. Honma, M. Kowalska, J. Krämer, A. Krieger, E. Mané, R. Neugart, G. Neyens, W. Nörtershäuser, M. Schug, H. H. Stroke and D. T. Yordanov: Experimental determination of an  $\text{I}\pi = 2^-$  ground state in  $^{72,74}\text{Cu}$ . In: Physical Review C **82**, 4, 1-5, Seq. No.: 041302 (2010).
- Fleischhaker, R., T. N. Dey and J. Evers: Phase modulation induced by cooperative effects in electromagnetically induced transparency. In: Physical Review A **82**, 1, 1-7, Seq. No.: 013815 (2010).
- Förstel, M., M. Mucke, T. Arion, T. Lischke, S. Barth, V. Ulrich, G. Öhrwall, O. Björneholm, U. Hergenrohn and A. M. Bradshaw: Observation of electronic energy bands in argon clusters. In: Physical Review B **82**, 1-6, Seq. No.: 125450 (2010).
- Fulle, M. and E. Grün: Comet 67P/Churyumov-Gerasimenko: the GIADA dust environment model of the Rosetta mission target. In: Astronomy & Astrophysics **522**, 1-17, Seq. No.: A63 (2010).
- Gagunashvili, N. D.: Chi-square tests for comparing weighted histograms. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **614**, 2, 287-296 (2010).
- Gallant, A. T., M. Brodeur, T. Brunner, S. Ettenauer, M. Good, A. Lapierre, R. Ringle, V. V. Simon, P. Delheij and J. Dilling: TITAN-EBIT - charge breeding of radioactive isotopes for high precision mass measurements. In: Journal of Instrumentation **5**, Seq. No.: C08009 (2010).
- Galow, B. J., Z. Harman and C. H. Keitel: Intense high-quality medical proton beams via laser fields. In: Optics Express **18**, 25, 25950-25957 (2010).
- Galow, B., E. Megias, J. Nian and H. J. Pirner: Phenomenology of AdS/QCD and its gravity dual. In: Nuclear Physics B

- Garny, M., A. Hohenegger and A. Kartavtsev: Medium corrections to the CP-violating parameter in leptogenesis. In: *Physical Review D* **81**, 8, 1-9, Seq. No.: 085028 (2010).
- Garny, M., A. Hohenegger, A. Kartavtsev and M. Lindner: Systematic approach to leptogenesis in nonequilibrium QFT: Self-energy contribution to the CP-violating parameter. In: *Physical Review D* **81**, 8, Seq. No.: 085027 (2010).
- Giuliani, A., M. Tavani, A. Bulgarelli, E. Striani, S. Sabatini, M. Cardillo, Y. Fukui, A. Kawamura, A. Ohama, N. Furukawa, K. Torii, H. Sano, F. A. Aharonian, F. Verrecchia, A. Argan, G. Barbiellini, P. A. Caraveo, P. W. Cattaneo, A. W. Chen, V. Cocco, E. Costa, F. D'Ammando, E. Del Monte, G. De Paris, G. Di Cocco, I. Donnarumma, Y. Evangelista, M. Feroci, M. Fiorini, T. Froyland, F. Fuschino, M. Galli, F. Gianotti, C. Labanti, Y. Lapshov, F. Lazzarotto, P. Lipari, F. Longo, M. Marisaldi, S. Mereghetti, A. Morselli, E. Moretti, L. Pacciani, A. Pellizzoni, F. Perotti, P. Picozza, M. Pilia, M. Prest, G. Pucella, M. Rapisarda, A. Rappoldi, P. Soffitta, M. Trifoglio, A. Trois, E. Vallazza, S. Vercellone, V. Vittorini, A. Zambra, D. Zanello, C. Pittori, P. Santolamazza, P. Giommi, S. Colafrancesco and L. Salotti: AGILE detection of GeV gamma-ray emission from the SNR W28. In: *Astronomy & Astrophysics* **516**, 1-4, Seq. No.: L11 (2010).
- Gonta, D. and S. Fritzsche: Multipartite W states for chains of atoms conveyed through an optical cavity. In: *Physical Review A* **81**, 2, Seq. No.: 022326 (2010).
- Goulielmakis, E., Z.-H. Loh, A. With, R. Santra, N. Rohringer, V. S. Yakovlev, S. Zherebtsov, T. Pfeifer, A. M. Azzeer, M. F. Kling, S. R. Leone and F. Krausz: Real-time observation of valence electron motion. In: *Nature* **466**, 7307, 739-743 (2010).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Limits on a muon flux from Kaluza-Klein dark matter annihilations in the Sun from the IceCube 22-string detector. In: *Physical Review D* **81**, 5, Seq. No.: 057101 (2010).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Search for muon neutrinos from gamma-ray bursts with the IceCube neutrino telescope. In: *Astrophysical Journal* **710**, 1, 346-359 (2010).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): Measurement of sound speed vs. depth in South Pole ice for neutrino astronomy. In: *Astroparticle Physics* **33**, 5-6, 277-286 (2010).
- Gross, A., S. Odrowski, E. Resconi, C. Roucelle, O. Schulz, Y. Sestayo et al. (IceCube Collaboration): ERRATUM: "Search for High-Energy Muon Neutrinos from the "Naked-Eye" GRB 080319B with the Icecube Neutrino Telescope" (2009, ApJ, 701, 1721). In: *Astrophysical Journal* **708**, 1, 911-912 (2010).
- Gross, P., I. D. Lindsay, C. J. Lee, M. Nittmann, T. Bauer, J. Bartschke, U. Warring, A. Fischer, A. Kellerbauer and K. J. Boller: Frequency control of a 1163 nm singly resonant OPO based on MgO:PPLN. In: *Optics Letters* **35**, 6, 820-822 (2010).
- Gulfam, Q. U. A. and J. Evers: Measurement of distance and orientation of two atoms in arbitrary geometry. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **43**, 4, Seq. No.: 045501 (2010).
- Gu, P.-H.: Large lepton asymmetry for small baryon asymmetry and warm dark matter. In: *Physical Review D* **82**, 9, 1-8, Seq. No.: 093009 (2010).
- Gu, P.-H.: Relations between Neutrino and Charged Fermion Masses. In: *Physical Review Letters* **105**, 13, 1-4, Seq. No.: 131802 (2010).
- Gu, P.-H.: Left-right symmetric model for neutrino masses, baryon asymmetry, and dark matter. In: *Physical Review D* **81**, 9, 1-6, Seq. No.: 095002 (2010).
- Gu, P.-H.: Resonant leptogenesis and a verifiable seesaw model from large extra dimensions. In: *Physical Review D* **81**, 7, 1-5, Seq. No.: 073002 (2010).
- Gu, P.-H., E. Ma and U. Sarkar: Pseudo-Majoron as Dark Matter. In: *Physics Letters B* **690**, 2, 145-148 (2010).
- Gu, P.-H. and U. Sarkar: Leptogenesis with linear, inverse or double seesaw. In: *Physics Letters B* **694**, 3, 226-232 (2010).
- Haba, N., K.-y. Oda and R. Takahashi: Phenomenological Aspects of Invisibly Broad Higgs Model from Extra-Dimension. In: *Journal of High Energy Physics* **2010**, 7, 1-24, Seq. No.: 079 (2010).
- Haba, N., K.-Y. Oda and R. Takahashi: Diagonal Kaluza-Klein expansion under brane localized potential. In: *Acta Physica Polonica B* **41**, 6, 1291-1316 (2010).
- Hahn, M., D. Bernhardt, M. Lestinsky, A. Müller, O. Novotný, S. Schippers, A. Wolf and D. W. Savin: Storage ring measurement of electron impact ionization for Mg<sup>7+</sup> forming Mg<sup>8+</sup>. In: *The Astrophysical Journal* **712**, 2, 1166-1171 (2010).
- Hermann, G. for the CTA collaboration: Towards the future Cherenkov telescope array CTA. In: *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **623**, 1, 408-409 (2010).
- Heusler, A., T. Faestermann, R. Hertenberger, R. Krucken, H. F. Wirth and P. von Brentano: Observation of the 2(-) state in Pb-208 with a major s(1/2)p(3/2) structure and structure of ten more 2(-) states. In: *European Physical Journal A* **46**, 1, 17-26 (2010).
- Heusler, A., G. Graw, T. Faestermann, R. Hertenberger, R. Krucken, C. Scholl, H. F. Wirth and P. von Brentano: Observation of five high-spin members of the g(9/2)f(7/2) multiplet in Pb-208. In: *European Physical Journal A* **44**, 2, 233-238 (2010).
- Heusler, A., G. Graw, R. Hertenberger, F. Riess, H. F. Wirth, T. Faestermann, R. Krucken, T. Behrens, V. Bildstein, K. Eppinger, C. Herlitzius, O. Lepyoshkina, M. Mahgoub, A. Parikh, S. Schwertel, K. Wimmer, N. Pietralla, V. Werner, J. Jolie, D. Mucher, C. Scholl and P. von Brentano: Positive parity states in Pb-208 excited by the proton decay of the isobaric analog intruder resonance j(15/2) in Bi-209. In: *Physics Letters C* **82**, 1, Seq. No.: 014316 (2010).
- Hofmann, W. for the Hess Collaboration and for the Fermi-LAT Collaboration: Very high energy gamma-ray emission from SHBL J001355.9-185406 detected by HESS. In: *The Astronomer's Telegram* **2010**, Seq. No.: ATel #3007 (2010).
- Holthausen, M. and R. Takahashi: GIMPs from Extra Dimensions. In: *Physics Letter B* **691**, 1, 56-59 (2010).
- Holthausen, M., M. Lindner and M. A. Schmidt: Radiative symmetry breaking of the minimal left-right symmetric model. In: *Physical Review D* **82**, 5, Seq. No.: 055002 (2010).
- Hooper, D. and A. M. Taylor: On the heavy chemical composition of the ultra-high energy cosmic rays. In: *Astroparticle Physics* **33**, 3, 151-159 (2010).
- Hsu, H. W., S. Kempf and C. M. Jackman: Observation of saturnian stream particles in the interplanetary space. In: *Icarus* **206**, 2, 653-661 (2010).
- Hsu, H. W., S. Kempf, F. Postberg, R. Srama, C. M. Jackman, G. Moragas-Klostermeyer, S. Helfert and E. Gruen: Interaction of the solar wind and stream particles, results from the Cassini dust detector. In: *AIP Conference Proceedings* **1216**, 510-513 (2010).
- Hu, H. Y., C. Müller and C. H. Keitel: Complete QED Theory of Multiphoton Trident Pair Production in Strong Laser Fields. In: *Physical Review Letters* **105**, 8, Seq. No.: 080401

- (2010).
- Izawa, K. I., Y. Nakai and R. Takahashi: Nonlinearly realized extended supergravity. In: *Physical Review D* **82**, 7, Seq. No.: 075008 (2010).
- Janssen, C. and B. Tuzson: Isotope Evidence for Ozone Formation on Surfaces. In: *Journal of Physical Chemistry A* **114**, 36, 9709-9719 (2010).
- Jentschura, U. D. and V. A. Yerokhin: QED corrections of order  $\alpha(Z\alpha)^E-2(F)$  to the hyperfine splitting of P-1/2 and P-3/2 states in hydrogenlike ions. In: *Physical Review A* **81**, 1, Seq. No.: 012503 (2010).
- Jiang, Y. H., T. Pfeifer, A. Rudenko, O. Herrwerth, L. Foucar, M. Kurka, K. U. Kühnel, M. Lezius, M. F. Kling, X. Liu, K. Ueda, S. Düsterer, R. Treusch, C. D. Schröter, R. Moshhammer and J. Ullrich: Temporal coherence effects in multiple ionization of N-2 via XUV pump-probe autocorrelation. In: *Physical Review A* **82**, 4, Seq. No.: 041403 (2010).
- Jiang, Y. H., A. Rudenko, O. Herrwerth, L. Foucar, M. Kurka, K. U. Kühnel, M. Lezius, M. F. Kling, J. van Tilborg, A. Belkacem, K. Ueda, S. Düsterer, R. Treusch, C. D. Schröter, R. Moshhammer and J. Ullrich: Ultrafast Extreme Ultraviolet Induced Isomerization of Acetylene Cations. In: *Physical Review Letters* **105**, 26, 1-4, Seq. No.: 263002 (2010).
- Jiang, Y. H., A. Rudenko, J. F. Pérez-Torres, O. Herrwerth, L. Foucar, M. Kurka, K. U. Kühnel, M. Toppin, E. Plésiat, F. Morales, F. Martín, M. Lezius, M. F. Kling, T. Jahnke, R. Dörner, J. L. Sanz-Vicario, J. van Tilborg, A. Belkacem, M. Schulz, K. Ueda, T. J. M. Zouros, S. Düsterer, R. Treusch, C. D. Schröter, R. Moshhammer and J. Ullrich: Investigating two-photon double ionization of D<sub>2</sub> by XUV-pump-XUV-probe experiments. In: *Physical Review A* **81**, 5, 1-4, Seq. No.: 051402 (2010).
- Jiang, Y. H., A. Rudenko, E. Plésiat, L. Foucar, M. Kurka, K. U. Kühnel, T. Ergler, J. F. Pérez-Torres, F. Martín, O. Herrwerth, M. Lezius, M. F. Kling, J. Titze, T. Jahnke, R. Dörner, J. L. Sanz-Vicario, M. Schöffler, J. van Tilborg, A. Belkacem, K. Ueda, T. J. M. Zouros, S. Düsterer, R. Treusch, C. D. Schröter, R. Moshhammer and J. Ullrich: Tracing direct and sequential two-photon double ionization of D-2 in femtosecond extreme-ultraviolet laser pulses. In: *Physical Review A* **81**, 2, Seq. No.: 021401 (2010).
- Jin, L. L., M. Macovei, S. Q. Gong, C. H. Keitel and J. Evers: Squeezing in strong light scattered by a regular structure of atoms. In: *Optics Communications* **283**, 5 Sp. Iss. SI, 790-794 (2010).
- Jurkat, T., C. Voigt, F. Arnold, H. Schlager, H. Aufmhoff, J. Schmale, J. Schneider, M. Lichtenstern and A. Dörnbrack: Airborne stratospheric ITCIMS measurements of SO<sub>2</sub>, HCl, and HNO<sub>3</sub> in the aged plume of volcano Kasatochi. In: *Journal of Geophysical Research D: Atmospheres* **115**, 21, Seq. No.: D00L17 (2010).
- Kaether, F., W. Hampel, G. Heusser, J. Kiko and T. Kirsten: Reanalysis of the GALLEX solar neutrino flux and source experiments. In: *Physics Letters B* **685**, 1, 47-54 (2010).
- Kantemiris, I., A. Angelopoulos, N. Bassler, N. Giokaris, M. H. Holzscheiter and T. E. Kalogeropoulos: Real-time imaging for dose evaluation during antiproton irradiation. In: *Physics in Medicine and Biology* **55**, 5, N123-N131 (2010).
- Kanungo, R., C. Nociforo, A. Prochazka, Y. Utsuno, T. Aumann, D. Boutin, D. Cortina-Gil, B. Davids, M. Diakaki, F. Farinon, H. Geissel, R. Gernhäuser, J. Gerl, R. Janik, B. Jonson, B. Kindler, R. Knöbel, R. Krücken, M. Lantz, H. Lenske, Y. A. Litvinov, K. Mahata, P. Maierbeck, A. Musumarra, T. Nilsson, T. Otsuka, C. Perro, C. Scheidenberger, B. Sitar, P. Strmen, B. Sun, I. Szarka, I. Tanihata, H. Weick and M. Winkler: Structure of 33Mg sheds new light on the N = 20 island of inversion. In: *Physics Letters B* **685**, 4-5, 253-257 (2010).
- Kanungo, R., C. Nociforo, R. Prochazka, Y. Utsuno, T. Aumann, D. Boutin, D. Cortina-Gil, B. Davids, M. Diakaki, F. Farinon, H. Geissel, R. Gernhäuser, J. Gerl, R. Janik, B. Jonson, B. Kindler, R. Knöbel, R. Krücken, M. Lantz, H. Lenske, Y. A. Litvinov, K. Mahata, P. Maierbeck, A. Musumarra, T. Nilsson, T. Otsuka, C. Perro, C. Scheidenberger, B. Sitar, B. Strmen, B. Sun, I. Szarka, I. Tanihata, H. Weick and M. Winkler: Structure of 33Mg sheds new light on the N = 20 island of inversion. In: *Physics Letters B* **685**, 4-5, 253-257 (2010).
- Karvanagh, J. N., F. J. Currell, D. J. Timson, M. H. Holzscheiter, N. Bassler, R. Herrmann, K. M. Prise and G. Schetting: Experimental setup and first measurement of DNA damage induced along and around an antiproton beam. In: *European Physical Journal D* **60**, 1, 209-214 (2010).
- Kempf, S., U. Beckmann and J. Schmidt: How the Enceladus dust plume feeds Saturn's E ring. In: *Icarus* **206**, 2, 446-457 (2010).
- Ketelaer, J., T. Beyer, K. Blaum, M. Block, K. Eberhardt, M. Eibach, F. Herfurth, C. Smorra and S. Nagy: Accuracy studies with carbon clusters at the Penning trap mass spectrometer TRIGA-TRAP. In: *European Physical Journal D* **58**, 1, 47-52 (2010).
- Kiffner, M., M. A. Macovei, J. Evers and C. H. Keitel: Vacuum-Induced Processes in Multilevel Atoms. In: *Progress in Optics* **55**, 85-197 (2010).
- King, B., A. Di Piazza and C. H. Keitel: Double-slit vacuum polarization effects in ultraintense laser fields. In: *Physical Review A* **82**, 3, Seq. No.: 032114 (2010).
- King, B., A. Di Piazza and C. H. Keitel: A matterless double slit. In: *Nature Photonics* **4**, 2, 92-94 (2010).
- Kirk, J. G.: Waves in pulsar winds. In: *Plasma Physics and Controlled Fusion* **52**, 12, Seq. No.: 124029 (2010).
- Kirk, J. G. and B. Reville: Radiative Signatures of Relativistic Shocks. In: *Astrophysical Journal Letters* **710**, 1, 16-20 (2010).
- Kobayashi, T., Y. Nakai and R. Takahashi: Revisiting superparticle spectra in superconformal flavor models. In: *Journal of High Energy Physics* **2010**, 9, 1-17, Seq. No.: 093 (2010).
- Kobayashi, T., Y. Nakai and R. Takahashi: Fine Tuning in General Gauge Mediation. In: *Journal of High Energy Physics* **2010**, 01, 1-22, Seq. No.: 003 (2010).
- Kohler, M. C., C. Ott, P. Raith, R. Heck, I. Schlegel, C. H. Keitel and T. Pfeifer: High Harmonic Generation Via Continuum Wave-Packet Interference. In: *Physical Review Letters* **105**, 20, 1-4, Seq. No.: 203902 (2010).
- Kopp, J., M. Lindner, V. Niro and T. E. J. Underwood: Consistency of perturbativity and gauge coupling unification. In: *Physical Review D* **81**, 02, 1-13, Seq. No.: 025008 (2010).
- Kopp, J. and A. Merle: Ultralow Q values for neutrino mass measurements. In: *Physical Review C* **81**, 4, 1-5, Seq. No.: 045501 (2010).
- Kopp, J., T. Schwetz-Mangold and J. Zupan: Global interpretation of direct Dark Matter searches after CDMS-II results. In: *Journal of Cosmology and Astroparticle Physics* **2010**, 02, 1-20, Seq. No.: 014 (2010).
- Kopp, J., T. Ota and W. Winter: Optimization study for non-standard interaction search in a neutrino factory. In: *AIP Conference Proceedings* **1222**, 135-139 (2010).
- Kowalska, M.: ISOLTRAP results 2006-2009. In: *Hyperfine Interactions* **196**, 1-3, 199-203 (2010).
- Krasniqi, F., B. Najjari, L. Strüder, D. Rolles, A. Voitkov and J. Ullrich: Imaging molecules from within: Ultrafast angstrom-scale structure determination of molecules via photoelectron holography using free-electron lasers. In: *Physical Review A* **81**, 3, 1-11, Seq. No.: 033411 (2010).

- Kreckel, H., O. Novotný, K. N. Crabtree, H. Buhr, A. Petrigiani, B. A. Tom, R. D. Thomas, M. H. Berg, D. Bing, M. Grieser, C. Krantz, M. Lestinsky, M. B. Mendes, C. Nordhorn, R. Repnow, J. Stützel, A. Wolf and B. J. McCall: High-resolution storage-ring measurements of the dissociative recombination of H<sub>3</sub><sup>+</sup> using a supersonic expansion ion source. In: *Physical Review A* **82**, 4, 1-11, Seq. No.: 042715 (2010).
- Krüger, H., D. Bindschadler, S. F. Dermott, A. L. Graps, E. Grün, B. A. Gustafson, D. P. Hamilton, M. S. Hanner, M. Horanyi, J. Kissel, D. Linkert, G. Linkert, I. Mann, J. A. M. McDonnell, R. Moissl, G. E. Morfill, C. Polanskey, M. Roy, G. Schwehm and R. Srama: Galileo dust data from the jovian system: 2000 to 2003. In: *Planetary and Space Science* **58**, 7-8, 965-993 (2010).
- Krüger, H., V. Dikarev, B. Anweiler, S. F. Dermott, A. L. Graps, E. Grün, B. A. Gustafson, D. P. Hamilton, M. S. Hanner, M. Horanyi, J. Kissel, D. Linkert, G. Linkert, I. Mann, J. A. M. McDonnell, G. E. Morfill, C. Polanskey, G. Schwehm and R. Srama: Three years of Ulysses dust data: 2005 to 2007. In: *Planetary and Space Science* **58**, 7-8, 951-964 (2010).
- Ksenofontov, L. T., H. J. Völk and E. G. Berezhko: Nonthermal Properties of Supernova Remnant G1.9+0.3. In: *The Astrophysical Journal* **714**, 2, 1187-1193 (2010).
- Kurcewicz, J., F. Bosch, H. Geissel, Y. A. Litvinov, N. Winckler, K. Beckert, P. Beller, D. Boutin, L. Chen, C. Dimopoulou, H. G. Essel, B. Fabian, T. Faesterman, A. Fagner, B. Franzke, E. Haettner, M. Hausmann, S. Hess, P. Kienle, R. Knöbel, C. Kozhuharov, S. A. Litvinov, L. Maier, M. Mazzocco, F. Montes, A. Musumarra, C. Nociforo, F. Nolden, Z. Patyk, W. R. Plaf, A. Prochazka, R. Reda, R. Reuschl, C. Scheidenberger, M. Steck, T. Stöhlker, B. Sun, K. Takahashi, S. Torilov, M. Trassinelli, H. Weick and M. Winkler: Studies of two-body-decays at the FRS-ESR facility. In: *Acta Physica Polonica B* **41**, 2, 525-536 (2010).
- Kurka, M., J. Feist, D. A. Horner, A. Rudenko, Y. H. Jiang, K. U. Kuhnel, L. Foucar, T. N. Rescigno, C. W. McCurdy, R. Pazourek, S. Nagele, M. Schulz, O. Herrwerth, M. Lezius, M. F. Kling, M. Schoffler, A. Belkacem, S. Dusterer, R. Treusch, B. I. Schneider, L. A. Collins, J. Burgdorfer, C. D. Schröter, R. Moshhammer and J. Ullrich: Differential cross sections for non-sequential double ionization of He by 52 eV photons from the Free Electron Laser in Hamburg, FLASH. In: *New Journal of Physics* **12**, Seq. No.: 073035 (2010).
- Lammich, L., C. Domesle, B. Jordon-Thaden, M. Förstel, T. Arion, T. Lischke, O. Heber, S. Klumpp, M. Martins, N. Guerassimova, R. Treusch, J. Ullrich, U. Hergenbahn, H. B. Pedersen and A. Wolf: Fragmentation Pathways of H<sub>2</sub><sup>+</sup> after Extreme Ultraviolet Photoionization. In: *Physical Review Letters* **105**, 25, 1-4, Seq. No.: 253003 (2010).
- Lange, M., M. Froese, S. Menk, J. Varju, R. Bastert, K. Blaum, J. R. Crespo López-Urrutia, F. Fellenberger, M. Grieser, R. von Hahn, O. Heber, K.-U. Kühnel, F. Laux, D. A. Orlov, M. L. Rappaport, R. Repnow, C. D. Schröter, D. Schwalm, A. Shornikov, T. Sieber, Y. Toker, J. Ullrich, A. Wolf and D. Zajfman: A cryogenic electrostatic trap for long-time storage of keV ion beams. In: *Review of Scientific Instruments* **81**, 5, 1-10, Seq. No.: 055105 (2010).
- Lapierre, A., G. Bollen, J. R. C. Lopez-Urrutia, M. Doleans, S. Geyer, O. Kester, K. Kittimanapun, M. Portillo and S. Schwarz: The MSU EBIT at NSCL. In: *Journal of Instrumentation* **5**, Seq. No.: C07001 (2010).
- Lapierre, A., M. Brodeur, T. Brunner, S. Ettenauer, A. T. Gallant, V. Simon, M. Good, M. W. Froese, J. R. C. Lopez-Urrutia, P. Delheij, S. Epp, R. Ringle, S. Schwarz, J. Ullrich and J. Dilling: The TITAN EBIT charge breeder for mass measurements on highly charged short-lived isotopes-First online operation. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **624**, 1, 54-64 (2010).
- Law, S. S. C. and K. L. McDonald: Broken symmetry as a stabilizing remnant. In: *Physical Review D* **82**, 10, Seq. No.: 104032 (2010).
- Liang, G. Y., N. R. Badnell, J. R. C. Lopez-Urrutia, T. M. Baumann, G. Del Zanna, P. J. Storey, H. Tawara and J. Ullrich: R-matrix electron-impact excitation of Fe13+ and its application to the soft x-ray and extreme-ultraviolet spectroscopy of corona-like plasmas. In: *Astrophysical Journal, Supplement Series* **190**, 2, 322-333 (2010).
- Lindner, M., A. Merle and V. Niro: Enhancing Dark Matter Annihilation into Neutrinos. In: *Physical Review D* **82**, 12, 1-18, Seq. No.: 123529 (2010).
- Lisenfeld, U. and H. J. Völk: Shock acceleration of relativistic particles in galaxy-galaxy collisions. In: *Astronomy & Astrophysics* **524**, Seq. No.: A27 (2010).
- Liseykina, T. V., S. Pirner and D. Bauer: Relativistic Attosecond Electron Bunches from Laser-Illuminated Droplets. In: *Physical Review Letters* **104**, 9, Seq. No.: 095002 (2010).
- Litvinov, Y. A. and F. Bosch: Beta decay of highly charged ions. In: *Reports on Progress in Physics* **74**, 1, 1-45 (2010).
- Litvinov, Y. A., H. Geissel, R. Knöbel, B. Sun and H. Xu: Direct mass measurements of exotic nuclei in storage rings. In: *Acta Physica Polonica B* **41**, 2, 511-523 (2010).
- Liu, C. P. and K. Z. Hatsagortsyan: Origin of Unexpected Low Energy Structure in Photoelectron Spectra Induced by Midinfrared Strong Laser Fields. In: *Physical Review Letters* **105**, 11, Seq. No.: 113003 (2010).
- Liu, J. B., X. T. Xie and Y. Wu: Acoustic solitary wave and breather in molecular magnets via electromagnetically induced transparency. In: *EPL* **89**, 1, Seq. No.: 17006 (2010).
- Liu, Y., D. Ye, A. Rudenko, S. Tschuch, M. Dürr, M. Siegel, U. Morgner, Q. Gong, R. Moshhammer and J. Ullrich: Multiphoton Double Ionization of Ar and Ne Close to Threshold. In: *Physical Review Letters* **104**, 17, 1-4, Seq. No.: 173002 (2010).
- Lompe, T., T. B. Ottenstein, F. Serwane, A. N. Wenz, G. Zürn and S. Jochim: Radio-Frequency Association of Efimov Trimers. In: *Science* **330**, 6005, 940-944 (2010).
- Lompe, T., T. B. Ottenstein, F. Serwane, K. Viering, A. N. Wenz, G. Zürn and S. Jochim: Atom-Dimer Scattering in a Three-Component Fermi Gas. In: *Physical Review Letters* **105**, 10, 1-4, Seq. No.: 103201 (2010).
- Lopez-Urrutia, J. R. C. and P. Beiersdorfer: Measurement of the radiative decay rate of the metastable (2s(2)2p(3/2)(5)3s(1/2)) ((J=2)) level in Fe XVII. In: *Astrophysical Journal* **721**, 1, 576-581 (2010).
- Macchi, A., S. Veghini, T. V. Liseykina and F. Pegoraro: Radiation pressure acceleration of ultrathin foils. In: *New Journal of Physics* **12**, Seq. No.: 045013 (2010).
- Mackenroth, F., A. Di Piazza and C. H. Keitel: Determining the Carrier-Envelope Phase of Intense Few-Cycle Laser Pulses. In: *Physical Review Letters* **105**, 6, Seq. No.: 063903 (2010).
- Macovei, M. A.: Cooling a quantum circuit via coupling to a multiqubit system. In: *Physical Review A* **81**, 4, Seq. No.: 043411 (2010).
- Macovei, M. A. and J. Evers: Loading atom lasers by collectivity-enhanced optical pumping. In: *Physical Review A* **81**, 1, Seq. No.: 013626 (2010).
- Macovei, M., J. Evers and C. H. Keitel: Quantum entanglement in dense multiqubit systems. In: *Journal of Modern Optics* **57**, 14-15, 1287-1292 (2010).
- Macovei, M. A.: Measuring photon-photon interactions via photon detection. In: *Physical Review A* **82**, 6, 1-4, Seq. No.: 063815 (2010).
- Malyshchev, D., S. Gabici, L. O. Drury and F. A. Aharonian: A simple model for electron plasma heating in supernova remnants. In: *Astronomy & Astrophysics* **521**, 1-8, Seq. No.:

- A14 (2010).
- Mehrem, R. and A. Hohenegger: A generalization for the infinite integral over three spherical Bessel functions. In: *Journal of Physics A: Mathematical and Theoretical* **43**, 45, 1-9, Seq. No.: 455204 (2010).
- Merle, A.: The GSI oscillation mystery. In: *Progress in Particle and Nuclear Physics* **64**, 2, 445-447 (2010).
- Mezzetto, M. and T. Schwetz:  $\theta$  13: Phenomenology, present status and prospect. In: *Journal of Physics G* **37**, 10, 1-46, Seq. No.: 103001 (2010).
- Misiaszek, M., G. Bellini, J. Benziger, S. Bonetti, M. B. Avanzini, B. Caccianiga, L. Cadonati, F. Calaprice, C. Carraro, A. Chavarria, A. Chepurinov, F. Dalnoki-Veress, D. D'Angelo, S. Davini, H. de Kerret, A. Derbin, A. Etenko, K. Fomenko, D. Franco, C. Galbiati, S. Gazzana, C. Ghiano, M. Giammarchi, M. Goeger-Neff, A. Goretti, E. Guardincerri, S. Hardy, A. Ianni, A. Ianni, M. Joyce, G. Korga, D. Krynn, M. Laubenstein, M. Leung, T. Lewke, E. Litvinovich, B. Loer, P. Lombardi, L. Ludhova, I. Machulin, S. Manecki, W. Maneschg, G. Manuzio, Q. Meindl, E. Meroni, L. Miramonti, D. Montanari, V. Muratova, L. Oberauer, M. Obolensky, F. Ortica, M. Pallavicini, L. Papp, L. Perasso, S. Perasso, A. Pocar, R. S. Raghavan, G. Ranucci, A. Razeto, A. Re, P. Risso, A. Romani, D. Rountree, A. Sabelnikov, R. Saldanha, C. Salvo, S. Schönert, H. Simgen, M. Skorokhvatom, O. Smirnov, A. Sotnikov, S. Sukhotin, Y. Sworov, R. Tartaglia, G. Testera, D. Vignaud, R. B. Vogelaar, F. von Feilitzsch, J. Winter, M. Wojcik, A. Wright, M. Wurm, J. Xun, O. Zaimidoroga, S. Zavatarelli and G. Zuzel: Results from the Borexino experiment. In: *Acta Physica Polonica B* **41**, 7, 1603-1609 (2010).
- Mitchell, G. E., A. Richter and H. A. Weidenmüller: Random matrices and chaos in nuclear physics: Nuclear reactions. In: *Reviews of Modern Physics* **82**, 4, 2845-2901 (2010).
- Mocken, G. R., M. Ruf, C. Müller and C. H. Keitel: Nonperturbative multiphoton electron-positron-pair creation in laser fields. In: *Physical Review A* **81**, 2, Seq. No.: 022122 (2010).
- Molinari, S., B. Swinyard, J. Bally, M. Barlow, J. P. Bernard, P. Martin, T. Moore, A. Noriega-Crespo, R. Plume, L. Testi, A. Zavagno, A. Abergel, B. Ali, L. Anderson, P. Andre, J. P. Baluteau, C. Battersby, M. T. Beltran, M. Benedettini, N. Billot, J. Blommaert, S. Bontemps, F. Boulanger, J. Brand, C. Brunt, M. Burton, L. Calzoletti, S. Carey, P. Caselli, R. Cesaroni, J. Cernicharo, S. Chakrabarti, A. Chrysostomou, M. Cohen, M. Compiegne, P. de Bernardis, G. de Gasperis, A. M. di Giorgio, D. Elia, F. Faustini, N. Flagey, Y. Fukui, G. A. Fuller, K. Ganga, P. Garcia-Lario, J. Glenn, P. F. Goldsmith, M. Griffin, M. Hoare, M. Huang, D. Ikhenade, C. Joblin, G. Joncas, M. Juvela, J. M. Kirk, G. Lagache, J. Z. Li, T. L. Lim, S. D. Lord, M. Marengo, D. J. Marshall, S. Masi, F. Massi, M. Matsuura, V. Minier, M. A. Miville-Deschenes, L. A. Montier, L. Morgan, F. Motte, J. C. Mottram, T. G. Muller, P. Natoli, J. Neves, L. Olmi, R. Paladini, D. Paradis, H. Parsons, N. Peretto, M. Pestalozzi, S. Pezzuto, F. Piacentini, L. Piazzi, D. Polychroni, M. Pomares, C. C. Popescu, W. T. Reach, I. Ristorcelli, J. F. Robitaille, T. Robitaille, J. A. Rodon, A. Roy, P. Royer, D. Russeil, P. Saraceno, M. Sauvage, P. Schilke, E. Schisano, N. Schneider, F. Schuller, B. Schulz, B. Sibthorpe, H. A. Smith, M. D. Smith, L. Spinoglio, D. Stamatellos, F. Strafella, G. S. Stringfellow, E. Sturm, R. Taylor, M. A. Thompson, A. Traficante, R. J. Tuffs, G. Umana, L. Valenziano, R. Vavrek, M. Veneziani, S. Viti, C. Waelkens, D. Ward-Thompson, G. White, L. A. Wilcock, F. Wyrowski, H. W. Yorke and Q. Zhang: Clouds, filaments, and protostars: The Herschel Hi-GAL Milky Way. In: *Astronomy & Astrophysics* **518**, Seq. No.: L100 (2010).
- Molinari, S., B. Swinyard, J. Bally, M. Barlow, J. P. Bernard, P. Martin, T. Moore, A. Noriega-Crespo, R. Plume, L. Testi, A. Zavagno, A. Abergel, B. Ali, P. Andre, J. P. Baluteau, M. Benedettini, O. Berne, N. P. Billot, J. Blommaert, S. Bontemps, F. Boulanger, J. Brand, C. Brunt, M. Burton, L. Campeggio, S. Carey, P. Caselli, R. Cesaroni, J. Cernicharo, S. Chakrabarti, A. Chrysostomou, C. Codella, M. Cohen, M. Compiegne, C. J. Davis, P. de Bernardis, G. de Gasperis, J. Di Francesco, A. M. di Giorgio, D. Elia, F. Faustini, J. F. Fischera, Y. Fukui, G. A. Fuller, K. Ganga, P. Garcia-Lario, M. Giard, G. Giardino, J. Glenn, P. Goldsmith, M. Griffin, M. Hoare, M. Huang, B. Jiang, C. Joblin, G. Joncas, M. Juvela, J. Kirk, G. Lagache, J. Z. Li, T. L. Lim, S. D. Lord, P. W. Lucas, B. Maioli, M. Marengo, D. Marshall, S. Masi, F. Massi, M. Matsuura, C. Meny, V. Minier, M. A. Miville-Deschenes, L. Montier, F. Motte, T. G. Muller, P. Natoli, J. Neves, L. Olmi, R. Paladini, D. Paradis, M. Pestalozzi, S. Pezzuto, F. Piacentini, M. Pomares, C. C. Popescu, W. T. Reach, J. Richer, I. Ristorcelli, A. Roy, P. Royer, D. Russeil, P. Saraceno, M. Sauvage, P. Schilke, N. Schneider-Bontemps, F. Schuller, B. Schultz, D. S. Shepherd, B. Sibthorpe, H. A. Smith, M. D. Smith, L. Spinoglio, D. Stamatellos, F. Strafella, G. Stringfellow, E. Sturm, R. Taylor, M. A. Thompson, R. J. Tuffs, G. Umana, L. Valenziano, R. Vavrek, S. Viti, C. Waelkens, D. Ward-Thompson, G. White, F. Wyrowski, H. W. Yorke and Q. Zhang: Hi-GAL: The Herschel Infrared Galactic Plane Survey. In: *Publications of the Astronomical Society of the Pacific* **122**, 889, 314-325 (2010).
- Mucke, M., M. Braune, S. Barth, M. Foerstel, T. Lischke, V. Ulrich, T. Arion, U. Becker, A. Bradshaw and U. Hergenhan: A hitherto unrecognized source of low-energy electrons in water. In: *Nature Physics* **6**, 2, 78-81 (2010).
- Müller, C., A. B. Voitkiv, J. R. López-Urrutia and Z. Harman: Strongly Enhanced Recombination via Two-Center Electronic Correlations. In: *Physical Review Letters* **104**, 23, Seq. No.: 233202 (2010).
- Naimi, S., G. Audi, D. Beck, K. Blaum, C. Böhm, C. Borgmann, M. Breitenfeldt, S. George, F. Herfurth, A. Herlert, M. Kowalska, S. Kreim, D. Lunney, D. Neidherr, M. Rosenbusch, S. Schwarz, L. Schweikhard and K. Zuber: Critical-Point Boundary for the Nuclear Quantum Phase transition Near  $A = 100$  from Mass Measurements of  $^{96,97}\text{Kr}$ . In: *Physical Review Letters* **105**, 3, 1-4, Seq. No.: 032502 (2010).
- Najjari, B., A. B. Voitkiv and C. Müller: Two-Center Resonant Photoionization. In: *Physical Review Letters* **105**, 15, 1-4, Seq. No.: 153002 (2010).
- Natale, G., R. J. Tuffs, C. K. Xu, C. C. Popescu, J. Fischera, U. Lisenfeld, N. Lu, P. Appleton, M. Dopita, P. A. Duc, Y. Gao, W. Reach, J. Sulentic and M. Yun: Dust emission and star formation in Stephan's quintet. In: *Astrophysical Journal* **725**, 1, 955-984 (2010).
- Negrello, M., R. Hopwood, G. De Zotti, A. Cooray, A. Verma, J. Bock, D. T. Frayer, M. A. Gurwell, A. Omont, R. Neri, H. Dannerbauer, L. L. Leeuw, E. Barton, J. Cooke, S. Kim, E. da Cunha, G. Rodighiero, P. Cox, D. G. Bonfield, M. J. Jarvis, S. Serjeant, R. J. Ivison, S. Dye, I. Aretxaga, D. H. Hughes, E. Ibar, F. Bertoldi, I. Valtchanov, S. Eales, L. Dunne, S. P. Driver, R. Auld, S. Buttiglione, A. Cava, C. A. Grady, D. L. Clements, A. Dariush, J. Fritz, D. Hill, J. B. Hornbeck, L. Kelvin, G. Lagache, M. Lopez-Caniego, J. Gonzalez-Nuevo, S. Maddox, E. Pascale, M. Pohlen, E. E. Rigby, A. Robotham, C. Simpson, D. J. B. Smith, P. Temi, M. A. Thompson, B. E. Woodgate, D. G. York, J. E. Aguirre, A. Beelen, A. Blain, A. J. Baker, M. Birkinshaw, R. Blundell, C. M. Bradford, D. Burgarella, L. Danese, J. S. Dunlop, S. Fleuren, J. Glenn, A. I. Harris, J. Kamenetzky, R. E. Lupu, R. J. Maddalena, B. F. Madore, P. R. Maloney, H. Matsuhara, M. J. Michaowski, E. J. Murphy, B. J. Naylor, H. Nguyen, C. Popescu, S. Rawlings, D. Rigopoulou, D. Scott, K. S. Scott, M. Seibert, I. Smail, R. J. Tuffs, J. D. Vieira, P. P. van der Werf and J. Zmuidzinas: The Detection of a Population of Submillimeter-Bright, Strongly Lensed Galaxies. In: *Science* **330**, 6005, 800-804 (2010).
- Nian, J. and H. J. Pirner: Wilson loop-loop correlators in AdS/QCD. In: *Nuclear Physics A* **833**, 1-4, 119-137 (2010).
- Nogami, K., M. Fujii, H. Ohashi, T. Miyachi, S. Sasaki, S. Hasegawa, H. Yano, H. Shibata, T. Iwai, S. Minami, S. Takechi, E. Grün and R. Srama: Development of the Mercury dust monitor (MDM) onboard the BepiColombo mission. In:

- Planetary and Space Science **58**, 1-2 Sp. Iss. Sp. Iss. SI, 108-115 (2010).
- Novotny, O., H. Buhr, J. Stützel, M. B. Mendes, M. H. Berg, D. Bing, M. Froese, M. Grieser, O. Heber, B. Jordon-Thaden, C. Krantz, M. Lange, M. Lestinsky, S. Novotny, S. Menk, D. A. Orlov, A. Petrigiani, M. L. Rappaport, A. Shornikov, D. Schwalm, D. Zajfman and A. Wolf: Fragmentation Channels in Dissociative Electron Recombination with Hydronium and Other Astrophysically Important Species. In: Journal of Physical Chemistry A **114**, 14, 4870-4874 (2010).
- Ohm, S., J. A. Hinton and W. Domainko: Particle acceleration in the expanding blast wave of eta Carina's great eruption of 1843. In: Astrophysical Journal Letters **718**, 2, L161-L165 (2010).
- Ott, C., P. Raith and T. Pfeifer: Sub-cycle strong-field interferometry. In: Optics Express **18**, 23, 24307-24315 (2010).
- Pálffy, A.: Nuclear effects in atomic transitions. In: Contemporary Physics **51**, 6, 471-496 (2010).
- Pálffy, A. and J. Evers: Coherent control of nuclear forward scattering. In: Journal of Modern Optics **57**, 19, 1993-2003 (2010).
- Papash, A. I. and C. P. Welsch: Realization of nanosecond antiproton pulses in the ultra-low energy storage ring. In: Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **620**, 2-3, 128-141 (2010).
- Pedersen, H. B., L. Lammich, C. Domesle, B. Jordon-Thaden, O. Heber, J. Ullrich, R. Treusch, N. Guerassimova and A. Wolf: Experimental investigation of dissociation pathways of cooled HeH<sup>+</sup> following valence electron excitation at 32 nm by intense free-electron-laser radiation. In: Physical Review A **82**, 2, 1-8, Seq. No.: 023415 (2010).
- Perucho, M., V. Bosch-Ramon and D. Khangulyan: On the interaction of jets with stellar winds in massive x-ray binaries. In: International Journal of Modern Physics D **19**, 6, 791-796 (2010).
- Perucho, M., V. Bosch-Ramon and D. Khangulyan: 3D simulations of wind-jet interaction in massive X-ray binaries. In: Astronomy & Astrophysics **512**, March-April 2010, 4-7, Seq. No.: L4 (2010).
- Petrigiani, A., D. Bing, O. Novotný, M. H. Berg, H. Buhr, M. Grieser, B. Jordon-Thaden, C. Krantz, M. B. Mendes, S. Menk, S. Novotny, D. Orlov, R. Repnow, J. Stützel, X. Urbain and A. Wolf: Ultraviolet and Visible Light Photodissociation of H<sub>3</sub><sup>+</sup> in an Ion Storage Ring. In: Journal of Physical Chemistry A **114**, 4864-4869 (2010).
- Pfeifer, T.: Attosecond optics : Easing attosecond generation. In: Nature Photonics **4**, 7, 417-418 (2010).
- Pfeifer, T., Y. H. Jiang, S. Düsterer, R. Moshhammer and J. Ullrich: Partial-coherence method to model experimental free-electron laser pulse statistics. In: Optics Letters **35**, 20, 3441-3443 (2010).
- Postberg, F., M. Tieloff, R. Srama, J. K. Hillier, Z. Gainsforth, A. J. Westphal, S. Bugiel, E. Grün, S. Armes, A. Kearsley, T. Tyliczszak and W. H. Schwarz: Lab simulation of interstellar dust : a new approach for hypervelocity impact studies. In: Meteoritics & Planetary Science **45**, Suppl. Suppl. S, A165-A165 (2010).
- Povh, B. et al. (HERA Collaboration): Inelastic production of J/psi mesons in photoproduction and deep inelastic scattering at HERA. In: European Physical Journal C **68**, 3-4, 401-420 (2010).
- Povh, B. et al. (HERA Collaboration): Combined measurement and QCD analysis of the inclusive e(+/-)p scattering cross sections at HERA. In: Journal of High Energy Physics **2010**, 1, Seq. No.: 109 (2010).
- Povh, B. et al. (HERA Collaboration): Events with an isolated lepton and missing transverse momentum and measurement of W production at HERA. In: Journal of High Energy Physics **2010**, 3, Seq. No.: 035 (2010).
- Povh, B. et al. (HERA Collaboration): Jet production in ep collisions at high Q(2) and determination of alpha(s). In: European Physical Journal C **65**, 3-4, 363-383 (2010).
- Povh, B. et al. (HERA Collaboration): Measurement of the D\*(+/-) meson production cross section and F-2(c(c)over-bar) at high Q(2) in ep scattering at HERA. In: Physics Letters B **686**, 2-3, 91-100 (2010).
- Povh, B. et al. (HERA Collaboration): Measurement of leading neutron production in deep-inelastic scattering at HERA. In: European Physical Journal C **68**, 3-4, 381-399 (2010).
- Povh, B. et al. (HERA Collaboration): Jet production in ep collisions at low Q(2) and determination of alpha(s). In: European Physical Journal C **67**, 1-2, 1-24 (2010).
- Povh, B. et al. (HERA Collaboration): Measurement of the charm and beauty structure functions using the H1 vertex detector at HERA. In: European Physical Journal C **65**, 1-2, 89-109 (2010).
- Povh, B. et al. (HERA Collaboration): Diffractive electroproduction of rho and phi mesons at HERA. In: Journal of High Energy Physics **2010**, 5, Seq. No.: 032 (2010).
- Povh, B. et al. (HERA Collaboration): Prompt photons in photoproduction at HERA. In: European Physical Journal C **66**, 1-2, 17-33 (2010).
- Prabhudesai, V. S., U. Lev, A. Natan, B. A. Brunner, A. Diner, O. Heber, D. Strasser, D. Schwalm, I. Ben-Itzhak, J. J. Hua, D. B. Esry, Y. Silberberg and D. Zajfman: Tracing the photodissociation probability of H<sub>2</sub><sup>+</sup> in intense fields using chirped laser pulses. In: Physical Review A **81**, 2, 1-4, Seq. No.: 023401 (2010).
- Rajkovic, I., G. Busse, J. Hallmann, R. Moré, M. Petri, W. Quevedo, F. Krasniqi, A. Rudenko, T. Tschentscher, N. Stojanovic, S. Düsterer, R. Treusch, M. Tolken and S. Teichert: Diffraction properties of periodic lattices under free electron laser radiation. In: Physical Review Letters **104**, 12, 1-4, Seq. No.: 125503 (2010).
- Raue, M.: M 87 and Centaurus A: laboratories for VHE physics of jets and near supermassive black holes. In: Journal of Physics Conference Series **203**, Seq. No.: 012117 (2010).
- Reed, M. W., I. J. Cullen, P. M. Walker, Y. A. Litvinov, K. Blaum, F. Bosch, C. Brandau, J. J. Carroll, D. M. Cullen, A. Y. Deo, B. Detwiler, C. Dimopoulou, G. D. Dracoulis, F. Farinon, H. Geissel, E. Haettner, M. Heil, R. S. Kempley, R. Knöbel, C. Kozhuharov, C. Kurcewicz, N. Kuzminchuk, S. Litvinov, Z. Liu, R. Mao, C. Nociforo, F. Nolden, W. R. Plass, A. Prochazka, C. Scheidenberger, M. Steck, T. Stöhlker, B. Sun, T. P. D. Swan, G. Trees, H. Weick, N. Winckler, M. Winkler, P. J. Woods and T. Yamaguchi: Discovery of Highly Excited Long-Lived Isomers in Neutron-Rich Hafnium and Tantalum Isotopes through Direct Mass Measurements. In: Physical Review Letters **105**, 17, 1-5, Seq. No.: 172501 (2010).
- Ren, X. G., A. Senfleben, T. Pflüger, A. Dorn, K. Bartschat and J. Ullrich: Signatures of projectile-nucleus scattering in three-dimensional (e, 2e) cross sections for argon. In: Journal of Physics B: Atomic, Molecular and Optical Physics **43**, Seq. No.: 035202 (2010).
- Ren, X., A. Senfleben, T. Pflüger, A. Dorn, J. Colgan, M. S. Pindzola, O. Al-Hagan, D. H. Madison, I. Bray, D. V. Fursa and J. Ullrich: Tracing multiple scattering patterns in absolute (e,2e) cross sections for H<sub>2</sub> and He over a 4π solid angle. In: Physical Review A **82**, 3, 1-8, Seq. No.: 032712 (2010).
- Reville, B. and J. G. Kirk: Computation of Synthetic Spectra from Simulations of Relativistic Shocks. In: The Astrophysical Journal **724**, 2, 1283-1295 (2010).

- Reville, B. and J. G. Kirk: Linear Acceleration Emission in Pulsar Magnetospheres. In: *Astrophysical Journal* **715**, 1, 186-193 (2010).
- Rieger, F. M. and F. Volpe: Short-term VHE variability in blazars: PKS 2155-304. In: *Astronomy and Astrophysics* **520**, A23 (1)-A23 (5) (2010).
- Rietz, H. and B. Feuerstein: Auf Quantenpfaden durch das Heliumatom. In: *Spektrum der Wissenschaft* **2010**, Februar, 16-18 (2010).
- Robotham, A., S. P. Driver, P. Norberg, I. K. Baldry, S. P. Bamford, A. M. Hopkins, J. Liske, J. Loveday, J. A. Peacock, E. Cameron, S. M. Croom, I. F. Doyle, C. S. Frenk, D. T. Hill, D. H. Jones, E. van Kampen, L. S. Kelvin, K. Kuijken, R. C. Nichol, H. R. Parkinson, C. C. Popescu, M. Prescott, R. G. Sharp, W. J. Sutherland, D. Thomas and R. J. Tuffs: Galaxy and Mass Assembly (GAMA): Optimal Tiling of Dense Surveys with a Multi-Object Spectrograph. In: *Publications of the Astronomical Society of Australia* **27**, 1, 76-90 (2010).
- Rodejohann, W.: Scaling in the neutrino mass matrix and the see-saw mechanism. In: *Progress in Particle and Nuclear Physics* **64**, 2, 321-323 (2010).
- Rodejohann, W.: On non-unitary lepton mixing and neutrino mass observables. In: *Physics Letters B* **684**, 1, 40-47 (2010).
- Rodejohann, W.: Inverse neutrinoless double beta decay revisited: Neutrinos, Higgs triplets, and a muon collider. In: *Physical Review D* **81**, 11, 1-10, Seq. No.: 114001 (2010).
- Rodríguez, D., K. Blaum, W. Nörtershäuser, M. Ahammed, A. Algora, G. Audi, J. Äystö, D. Beck, M. Bender, J. Billowes, M. Block, C. Böhm, G. Bollen, M. Brodeur, B. A. Bushaw, R. B. Cakirli, P. Campbell, D. Cano-Ott, G. Cortés, J. R. Crespo López-Urrutia, P. Das, A. Dax, A. De, P. Delheij, T. Dickel, J. Dilling, K. Eberhardt, S. Eliseev, S. Ettenauer, K. T. Flanagan, R. Ferrer, J.-E. Garcia-Ramos, E. Gartzke, H. Geissel, S. George, C. Geppert, M. B. Gómez-Hornillos, Y. Gusev, D. Habs, P.-H. Heenen, S. Heinz, F. Herfurth, A. Herlert, M. Hobein, G. Huber, M. Huysse, C. Jesch, A. Jokinen, O. Kester, J. Ketelaer, V. Kolhinen, I. Koudriavtsev, M. Kowalska, J. Krämer, S. Kreim, T. Kühl, A. M. Lallena, A. Lapierre, F. Le Blanc, Y. A. Litvinov, D. Lunney, T. Martínez, G. Marx, M. Matos, E. Minaya-Ramirez, I. Moore, S. Nagy, S. Naimi, D. Neidherr, D. Nesterenko, G. Neyens, Y. N. Novikov, M. Petrick, W. R. Plaß, A. Popov, W. Quint, A. Ray, P.-G. Reinhard, J. Repp, C. Roux, B. Rubio, R. Sánchez, B. Schabinger, C. Scheidenberger, D. Schneider, R. Schuch, S. Schwarz, L. Schweikhard, M. Seliverstov, A. Solders, M. Suhonen, J. Szerypo, J. L. Tain, P. G. Thirolf, J. Ullrich, P. Van Duppen, A. Vasiliev, G. Vorobyev, C. Weber, K. Wendt, M. Winkler, D. Yordanov, F. Ziegler, T. Brunner and A. Krieger: MATS and LaSpec: High-precision experiments using ion traps and lasers at FAIR. In: *European Physical Journal : Special Topics* **183**, 1 (2010).
- Rodriguez, D., V. Sonnenschein, K. Blaum, M. Block, H.-J. Kluge, A. M. Lallena, S. Raeder and K. Wendt: Production of negative osmium ions by laser desorption and ionization. In: *Review of Scientific Instruments* **81**, 1, 1-4, Seq. No.: 013301 (2010).
- Romagnani, L., A. Bignongiari, S. Kar, S. V. Bulanov, C. A. Cecchetti, T. Z. Esirkepov, M. Galimberti, R. Jung, T. V. Liseykina, A. Macchi, J. Osterholz, F. Pegoraro, Ö. Willi and M. Borghesi: Observation of Magnetized Soliton Remnants in the Wake of Intense Laser Pulse Propagation through Plasmas. In: *Physical Review Letters* **105**, 17, 1-4, Seq. No.: 175002 (2010).
- Rudenko, A., Y. H. Jiang, M. Kurka, K. U. Kühnel, L. Foucar, O. Herrwerth, M. Lezius, M. F. Kling, C. D. Schröter, R. Moshhammer and J. Ullrich: Exploring few-photon, few-electron reactions at FLASH: from ion yield and momentum measurements to time-resolved and kinematically complete experiments. In: *Journal of Physics B* **43**, 19, 1-16, Seq. No.: 194004 (2010).
- Sansone, G.: Determining the Time Zero for Electronic Dynamics. In: *A European Journal of Chemical Physics and Physical Chemistry* **11**, 17, 3581-3583 (2010).
- Schmale, J., J. Schneider, T. Jurkat, C. Voigt, H. Kalesse, M. Rautenhaus, M. Lichtenstern, H. Schlager, G. Ancellet, F. Arnold, M. Gerding, I. Mattis, M. Wendisch and S. Borrmann: Aerosol layers from the 2008 eruptions of Mount Okmok and Mount Kasatochi: In situ upper troposphere and lower stratosphere measurements of sulfate and organics over Europe. In: *Journal of Geophysical Research - Atmospheres* **115**, Seq. No.: D00L07 (2010).
- Schmelling, M. for the LHCb Collaboration: Roadmap for selected key measurements of LHCb. In: *High Energy Physics - Experiment*, arXiv **2010**, 1-378, Seq. No.: arXiv:0912.4179v3 (2010).
- Schmid, S. I. and J. Evers: Interplay of vacuum-mediated inter- and intra-atomic couplings in a pair of atoms. In: *Physical Review A* **81**, 6, Seq. No.: 063805 (2010).
- Schmitz, T., M. Blaickner, C. Schutz, N. Wiehl, J. V. Kratz, N. Bassler, M. H. Holzscheiter, H. Palmans, P. Sharpe, G. Otto and G. Hampel: Dose calculation in biological samples in a mixed neutron-gamma field at the TRIGA reactor of the University of Mainz. In: *Acta Oncologica* **49**, 7, 1165-1169 (2010).
- Schulz, M., R. Moshhammer, D. Fischer and J. Ullrich: Comment on "Coincidence studies of He ionized by C6+, Au24+, and Au53+". In: *Physical Review A* **81**, 6, 1-1, Seq. No.: 066701 (2010).
- Schwarz, S., G. Bollen, O. Kester, K. Kittimanapun, A. Lapierre, J. R. C. Lopez-Urrutia, J. Dilling, F. Ames, L. E. Ahle, P. Beiersdorfer, R. E. Marrs, J. R. Beene, A. J. Mendez, D. W. Stracener, M. Lindroos and F. Wenander: EBIS/T charge breeding for intense rare isotope beams at MSU. In: *Journal of Instrumentation* **5**, Seq. No.: C10002 (2010).
- Schwellnus, F., K. Blaum, R. Catherall, B. Crepieux, V. Fedosseev, T. Gottwald, H.-J. Kluge, B. Marsh, C. Mattolat, S. Rothe, T. Stora and K. Wendt: The laser ion source trap for highest isobaric selectivity in online exotic isotope production. In: *Review of Scientific Instruments* **81**, 2, 1-3, Seq. No.: 02A515 (2010).
- Senftleben, A., O. Al-Hagan, T. Pflüger, X. Ren, D. Madison, A. Dorn and J. Ullrich: Fivefold differential cross sections for ground-state ionization of aligned H2 by electron impact. In: *The Journal of Chemical Physics* **133**, 4, 1-7, Seq. No.: 044302 (2010).
- Senftleben, A., T. Pflüger, X. Ren, O. Al-Hagan, B. Najjari, D. Madison, A. Dorn and J. Ullrich: Search for interference effects in electron impact ionization of aligned hydrogen molecules. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **43**, 8, 1-5, Seq. No.: 081002 (2010).
- Shahbaz, A., T. J. Bürvenich and C. Müller: Isotope effects in the harmonic response from hydrogenlike muonic atoms in strong laser fields. In: *Physical Review A* **82**, 1, Seq. No.: 013418 (2010).
- Simmat, E., R. J. Tuffs and C. C. Popescu: Infrared Properties of the Halo, Bulge and Disk of the Edge-on Galaxy NGC 7814. In: *AIP Conference Proceedings* **1240**, 87-88 (2010).
- Simon, M. C., J. R. C. Lopez-Urrutia, C. Beilmann, M. Schwarz, Z. Harman, S. W. Epp, B. L. Schmitt, T. M. Baumann, E. Behar, S. Bernitt, R. Follath, R. Ginzel, C. H. Keitel, R. Klawitter, K. Kubicek, V. Mackel, P. H. Mokler, G. Reichardt, O. Schwarzkopf and J. Ullrich: Resonant and Near-Threshold Photoionization Cross Sections of Fe14+. In: *Physical Review Letters* **105**, 18, Seq. No.: 183001 (2010).
- Simon, M. C., M. Schwarz, S. W. Epp, C. Beilmann, B. L. Schmitt, Z. Harman, T. M. Baumann, P. H. Mokler, S. Bernitt, R. Ginzel, S. G. Higgins, C. H. Keitel, R. Klawitter, K. Kubicek, V. Mackel, J. Ullrich and J. R. Crespo López-Urrutia: Photoionization of

- N3+ and Ar8+ in an electron beam ion trap by synchrotron radiation. In: *Journal of Physics B: Atomic, Molecular and Optical Physics* **43**, 6, 1-11, Seq. No.: 065003 (2010).
- Siomau, M. and S. Fritzsche: Universal quantum Controlled-NOT gate. In: *The European Physical Journal D - Atomic, Molecular, Optical and Plasma Physics* **60**, 2, 417-421 (2010).
- Siomau, M. and S. Fritzsche: Entanglement dynamics of three-qubit states in noisy channels. In: *The European Physical Journal D - Atomic, Molecular, Optical and Plasma Physics* **60**, 2, 397-403 (2010).
- Siomau, M. and S. Fritzsche: High-fidelity copies from a symmetric 1 → 2 quantum cloning machine. In: *European Physical Journal D* **57**, 2, 293-300 (2010).
- Smolnikov, A. and P. Grabmayr: Conversion of experimental half-life to effective electron neutrino mass in 0 nu beta beta decay. In: *Physical Review C* **81**, 2, Seq. No.: 028502 (2010).
- Sorokin, A.: One conceivable mechanism of UV-light induced SO<sub>2</sub> Oxidation to H<sub>2</sub>SO<sub>4</sub>. In: *Atmospheric Chemistry and Physics* **10**, 6, 3141-3145 (2010).
- Strelnikov, D. and W. Krätschmer: IR-characterization of a hybrid molecule C-60-C-3 produced in an argon matrix. In: *Carbon* **48**, 6, 1702-1706 (2010).
- Strüder, L., S. Epp, D. Rolles, R. Hartmann, P. Holl, G. Lutz, H. Soltau, R. Eckart, C. Reich, K. Heinzinger, C. Thamm, A. Rudenko, F. Krasniqi, K. U. Kühnel, C. Bauer, C. D. Schröter, R. Moshhammer, S. Teichert, D. Miessner, M. Porro, O. Haelker, N. Meidinger, N. Kimmel, R. Andritschke, F. Schopper, G. Weidenspointer, A. Ziegler, D. Pietschner, S. Herrmann, U. Pietsch, A. Walenta, W. Leitenberger, C. Bostedt, T. Moeller, D. Rupp, M. Adolph, H. Graafsma, H. Hirsemann, K. Gärtner, R. Richter, L. Foucar, R. L. Shoeman, I. Schlichting and J. Ullrich: Large-format, high-speed, X-ray pnCCDs combined with electron and ion imaging spectrometers in a multipurpose chamber for experiments at 4th generation light sources. In: *Nuclear Instruments and Methods in Physics Research Section A* **614**, 3, 483-496 (2010).
- Sturm, S., K. Blaum, B. Schabinger, A. Wagner, W. Quint and G. Werth: On g-factor experiments with individual ions. In: *Journal of Physics B* **43**, 7, 1-6, Seq. No.: 074016 (2010).
- Stute, M., J. Gracia, K. Tsiganos and N. Vlahakis: Comparison of synthetic maps from truncated jet-formation models with YSO jet observations. In: *Astronomy & Astrophysics* **516**, 7, 1-13, Seq. No.: A6 (2010).
- Sun, B., F. Bosch, D. Boutin, C. Brandau, L. Chen, C. Dimopoulou, B. Fabian, H. Geissel, R. Knöbel, C. Kozhuharov, J. Kurcewicz, S. A. Litvinov, Y. A. Litvinov, J. Meng, G. Münzenberg, C. Nociforo, F. Nolden, W. R. Plaß, C. Scheidenberger, M. Steck, P. M. Walker, H. Weick, N. Winckler and M. Winkler: Precise measurement of nuclear isomers in the storage ring at GSI. In: *Nuclear Physics A* **834**, 1-4, 476c-478c (2010).
- Sun, B., R. Knöbel, H. Geissel, Y. A. Litvinov, P. M. Walker, K. Blaum, F. Bosch, D. Boutin, C. Brandau, L. Chen, I. J. Cullen, A. Dolinskii, B. Fabian, M. Hausmann, C. Kozhuharov, J. Kurcewicz, S. A. Litvinov, Z. Liu, M. Mazzocco, J. Meng, F. Montes, G. Münzenberg, A. Musumarra, S. Nakajima, C. Nociforo, F. Nolden, T. Ohtsubo, A. Ozawa, Z. Patyk, W. R. Plaß, C. Scheidenberger, M. Steck, T. Suzuki, H. Weick, N. Winckler, M. Winkler and T. Yamaguchi: Direct measurement of the 4.6 MeV isomer in stored bare 133Sb ions. In: *Physics Letters B* **688**, 4-5, 294-297 (2010).
- Tamburini, M., F. Pegoraro, A. Di Piazza, C. H. Keitel and A. Macchi: Radiation reaction effects on radiation pressure acceleration. In: *New Journal of Physics* **12**, 1-14, Seq. No.: 123005 (2010).
- Tam, P. H. T., S. J. Wagner, O. Tibolla and R. C. G. Chaves: A search for VHE counterparts of Galactic Fermi bright sources and MeV to TeV spectral characterization. In: *Astronomy & Astrophysics* **518**, 10, 1-14, Seq. No.: 13717 (2010).
- Tibolla, O. et al (Fermi Collaboration): Fermi-lat discovery of GeV gamma-ray emission from the young supernova remnant Cassiopeia A. In: *Astrophysical Journal Letters* **710**, 1, L92-L97 (2010).
- Tibolla, O. et al (Fermi Collaboration): Fermi large area telescope observations of PSR J1836+5925. In: *Astrophysical Journal* **712**, 2, 1209-1218 (2010).
- Tibolla, O. et al (Fermi Collaboration): The first Fermi large area telescope catalog of gamma-ray pulsars. In: *Astrophysical Journal Supplement Series* **187**, 2, 460-494 (2010).
- Tibolla, O. et al (Fermi Collaboration): PKS 1502+106: A new and distant gamma-ray blazar in outburst discovered by the fermi large area telescope. In: *Astrophysical Journal* **710**, 1, 810-827 (2010).
- Tibolla, O. et al (Fermi Collaboration): Detection of gamma-ray emission from the starburst galaxies M82 and NGC 253 with the large area telescope on Fermi. In: *Astrophysical Journal Letters* **709**, 2, L152-L157 (2010).
- Tibolla, O. et al (Fermi Collaboration): Gamma-Ray Emission from the Shell of Supernova Remnant W44 Revealed by the Fermi LAT. In: *Science* **327**, 5969, 1103-1106 (2010).
- Tibolla, O. et al (Fermi Collaboration): PSR J1907+0602: a radio-faint-gamma-ray pulsar powering a bright TeV pulsar wind nebula. In: *Astrophysical Journal* **711**, 1, 64-74 (2010).
- Tobie, G., B. Giese, T. A. Hurford, R. M. Lopes, F. Nimmo, F. Postberg, K. D. Retherford, J. Schmidt, J. R. Spencer, T. Tokano and E. P. Turtle: Surface, Subsurface and Atmosphere Exchanges on the Satellites of the Outer Solar System. In: *Space Science Reviews* **153**, 1-4, 375-410 (2010).
- Vingerhoets, P., K. T. Flanagan, M. Avgoulea, J. Billowes, M. L. Bissell, K. Blaum, B. A. Brown, B. Cheal, M. De Rydt, D. H. Forest, C. Geppert, M. Honma, M. Kowalska, J. Krämer, A. Krieger, E. Mané, R. Neugart, G. Neyens, W. Nörtershäuser, T. Otsuka, M. Schug, H. H. Stroke, G. Tungate and D. T. Yordanov: Nuclear spins, magnetic moments, and quadrupole moments of Cu isotopes from N = 28 to N = 46: Probes for core polarization effects. In: *Physical Review C* **82**, 6, 1-12, Seq. No.: 064311 (2010).
- Voitkiv, A. B. and B. Najjari: Two-center dielectronic recombination and resonant photoionization. In: *Physical Review A* **82**, 5, 1-9, Seq. No.: 052708 (2010).
- Voitkiv, A. B., B. Najjari and A. Di Piazza: Bound-bound pair production in relativistic collisions. In: *New Journal of Physics* **12**, 1-8, Seq. No.: 063011 (2010).
- Voitkiv, A. B., B. Najjari and V. P. Shevelko: Symmetric eikonal model for projectile-electron excitation and loss in relativistic ion-atom collisions. In: *Physical Review A* **82**, 2, Seq. No.: 022707 (2010).
- Voss, H.: Production, commissioning and first data of the LHCb Silicon Tracker. In: *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* **612**, 3, 460-463 (2010).
- Voss, H. for the LHCb Collaboration: LHCb commissioning and readiness for first data. In: *High Energy Physics - Experiment*, arXiv **2010**, 1-3, Seq. No.: arXiv:1010.3520v1 (2010).
- Wagner, A., S. Sturm, B. Schabinger, K. Blaum and W. Quint: A battery-based, low-noise voltage source. In: *Review of Scientific Instruments* **81**, 06, 1-7, Seq. No.: 064706 (2010).
- Werth, G., K. Blaum, B. Schabinger, S. Sturm and A. Wagner: Precision spectroscopy with individual ions. In: *Indian Journal of Physics* **84**, 8, 939-946 (2010).
- Winckler, N., K. Blaum, F. Bosch and Y. A. Litvinov: Two-body

beta decay of stored highly-charged ions. In: Nuclear Physics A **834**, 1-4, 432c-435c (2010).

Wolf, A., H. B. Pedersen, L. Lammich, B. Jordon-Thaden, S. Altevoigt, C. Domesle, U. Hergenbahn, M. Förstel and O. Heber: Soft-x-ray fragmentation studies of molecular ions. In: Journal of Physics B: Atomic, Molecular and Optical Physics **43**, 19, 1-11, Seq. No.: 194007 (2010).

Xia, K. and J. Evers: Ground-state cooling of a nanomechanical resonator coupled to two interacting flux qubits. In: Physical Review B **82**, 18, 1-6, Seq. No.: 184532 (2010).

Xie, X. T. and M. A. Macovei: Single-Cycle Gap Soliton in a Subwavelength Structure. In: Physical Review Letters **104**, 7, Seq. No.: 073902 (2010).

Yamada, A., H. Fukuzawa, K. Motomura, X.-J. Liu, L. Foucar, M. Okunishi, K. Ueda, N. Saito, H. Iwayama, K. Nagaya, A. Sugishima, H. Murakami, M. Yao, A. Rudenko, K. U. Kühnel, J. Ullrich, R. Feifel, A. Czasch, R. Dörner, M. Nagasono, A. Higashiya, M. Yabashi, T. Ishikawa, H. Ohashi, H. Kimura and T. Togashi: Ion-ion coincidence studies on multiple ionizations of N<sub>2</sub> and O<sub>2</sub> molecules irradiated by extreme ultraviolet free-electron laser pulses. In: The Journal of Chemical Physics **132**, 20, 1-5, Seq. No.: 204305 (2010).

Yan, T. M., S. V. Popruzhenko, M. J. J. Vrakking and D. Bauer: Low-Energy Structures in Strong Field Ionization Revealed by Quantum Orbits. In: Physical Review Letters **105**, 25, 1-4, Seq. No.: 253002 (2010).

Yerokhin, V. A. and U. D. Jentschura: Self-energy correction to the hyperfine splitting and the electron g factor in hydrogenlike ions. In: Physical Review A **81**, 1, Seq. No.: 012502 (2010).

Yordanov, D. T., K. Blaum, M. De Rydt, M. Kowalska, R. Neugart, G. Neyens and I. Hamamoto: Comment on "Intruder Configurations in the A = 33 Isobars: 33Mg and 33Al". In: Physical Review Letters **104**, 12, 1-1, Seq. No.: 129201 (2010).

Yuan, F., R. M. Quimby, J. C. Wheeler, J. Vinko, E. Chatzopoulos, C. W. Akerlof, S. Kulkarni, J. M. Miller, T. A. McKay and F. Aharonian: The exceptionally luminous type Ia supernova 2007if. In: Astrophysical Journal **715**, 2, 1338-1343 (2010).

Yuan, F., P. Schady, J. L. Racusin, R. Willingale, T. Krühler, P. T. O'Brien, J. Greiner, S. R. Oates, E. S. Rykoff, F. Aharonian, C. W. Akerlof, M. C. B. Ashley, S. D. Barthelmy, R. Filgas, H. A. Flewelling, N. Gehrels, E. Gogus, T. Guver, D. Horns, U. Kiziloglu, H. A. Krimm, T. A. McKay, M. E. Ozel, A. Phillips, R. M. Quimby, G. Rowell, W. Rujopakarn, B. E. Schaefer, W. T. Vestrand, J. C. Wheeler and J. Wren: GRB 081008: from burst to afterglow and transition phase in between. In: Astrophysical Journal **711**, 2, 870-880 (2010).

Zaková, M., Z. Andjelkovic, M. L. Bissell, K. Blaum, G. W. F. Drake, C. Geppert, M. Kowalska, J. Krämer, A. Krieger, M. Lochmann, T. Neff, R. Neugart, W. Nörtershäuser, R. Sánchez, F. Schmidt-Kaler, T. Tiedemann, Z.-C. Yan, D. T. Yordanov and C. Zimmermann: Isotope shift measurements in the 2s<sub>1/2</sub> → 2p<sub>3/2</sub> transition of Be<sup>+</sup> and extraction of the nuclear charge radii for 7,10,11Be. In: Journal of Physics G: Nuclear Particle Physics **37**, 1-14, Seq. No.: 055107 (2010).

Zirakashvili, V. N. and F. A. Aharonian: Nonthermal radiation of young supernova remnants: the case of RX J1713.7-3946. In: Astrophysical Journal **708**, 2, 965-980 (2010).

## Books and Inbooks

Völk, H. J. and K. Bernlöhr: Imaging very high energy gamma-ray telescopes. In: 400 Years of astronomical telescopes: a review of history, science and technology. (Eds.) Bernhard Brandl, Remko Stuik, Jeannette Katgert-Merkelijn. Springer, Berlin [u.a.] (2010) 171-189.

## Conference Papers

Adeel-Ur-Rehman, A., F. Bujor, J. Benes, C. Caramarcu, M. Dobson, A. Dumitrescu, I. Dumitru, M. Leahu, I. Valsan, A. Oreshkin, D. Popov, G. Unel and A. Zaytsev: System administration of ATLAS TDAQ computing environment. In: Journal of Physics: Conference Series **219**, Issue 1 PART 2, Seq. No.: 022048 (2010).

Akhmedov, E.: Neutrino oscillations in quantum mechanics and quantum field theory. In: GRIBOV-80: Proceedings Inst. (2010) 1-15.

Beilmann, C., J. R. Crespo López-Urrutia, P. Mokler and J. Ullrich: High resolution resonant recombination measurements using evaporative cooling technique. In: Journal of Instrumentation **5**, Seq. No.: C09002 (2010).

Bezrukov, F.: Inflation in the standard model and vMSM with non-minimal coupling to gravity. In: Proceedings of Invisible Univers AIP Conference Proceedings **1241**. AIP, Melville (2010) 511-520.

Blaum, K., S. Eliseev and S. Nagy: High-precision Penning trap mass measurements for tests of the Standard Model. In: VIII Latin American Symposium on Nuclear Physics and Applications, (Eds.) Ricardo Alarcon et al. AIP Conference Proceedings **1265**. AIP, Melville (2010) 293-299.

Bolmont, J., R. Bühler, A. Jacholkowska and S. Wagner: Search for Quantum Gravity induced effects with PKS 2155-304 flaring period in 2006 by H.E.S.S. In: Proceedings of Invisible Univers international conference AIP Conference Proceedings **1241**. AIP, Melville (2010) 528-533.

Brandau, C., C. Kozhuharov, A. Mueller, D. Bernhardt, F. Bosch, D. Boutin, F. J. Currell, C. Dimopoulou, B. Franzke, S. Fritzsche, A. Gumberidze, Z. Harman, U. D. Jentschura, C. H. Keitel, Y. S. Kozhedub, R. Krücken, Y. A. Litvinov, F. Nolden, B. O'Rourke, R. Reuschl, S. Schippers, V. M. Shabaev, U. Spillmann, Z. Stachura, M. Steck, T. Stöhlker, I. I. Tupitsyn, D. F. A. Winters and A. Wolf: Resonant recombination at ion storage rings: a conceptual alternative for isotope shift and hyperfine studies. In: Hyperfine Interactions **196**, 1-3 (2010) 115-127.

Britsch, M., M. Gagunashvili and M. Schmelling: Classifying extremely imbalanced data sets. In: Proceedings of Science **ACAT2010**, Seq. No.: 047 (2010) 1-8.

Britsch, M., N. Gagunashvili and M. Schmelling: Application of the rule-growing algorithm RIPPER to particle physics analysis. In: Proceedings of Science **ACAT08**, Seq. No.: 086 (2010) 1-10.

Cakirli, R. B. and R. F. Casten: Masses and structure. In: VIII Latin American Symposium on Nuclear Physics and Applications, (Eds.) Ricardo Alarcon et al. AIP Conference Proceedings **1265**. AIP, Melville (2010) 31-36.

Choubey, S., T. Schwetz and C. Walter: Working Group I Report (Theory). In: Proceedings of the 11th International Workshop on Neutrino Factories, Superbeams and Beta Beams—NuFact09 AIP Conference Proceedings **1522**. AIP, Melville (2010) 65-74.

de Ona Wilhelmi for the Hess Collaboration: Status of the H.E.S.S. telescope. In: Proceedings of the VII workshop on Science with the New Generation of High Energy Gamma-ray Experiments AIP Conference Proceedings. AIP (2010).

Ducloux, R., J. G. Kirk and A. R. Bell: Monte Carlo calculations of pair production in high-intensity laser-plasma interactions. In: Plasma Physics and Controlled Fusion **53**, 1, Seq. No.: 015009 (2010) 1-11.

Evers, J., R. Fleischhaker, A. Pálffy and C. H. Keitel: Light propagation : from atomic to nuclear quantum optics. In: Modern optics and photonics : atoms and structured media World Scientific, Singapore [u.a.] (2010) 3-15.

Ferro, F., S. Lami, A. Achilli, O. Adriani, A. Alkin, S. Diglio, M. Gallinaro, R. M. Godbole, K. Goulianos, A. Grau, J. Kaspar, V.

- Kundrat, M. Lokajicek, E. Martynov, K. Osterberg, G. Pancheri, J. Prochazka, C. Royon, M. Schmelling, O. Shekhovtsova, Y. N. Srivastava and D. Volyanskyy: Forward Physics at the LHC (ELba 2010). In: Proceedings of Forward Physics at LHC Workshop, Seq. No.: arXiv:1012.5169v1 (2010) 1-118.
- Grieser, M., R. Bastert, K. Blaum, H. Buhr, D. Fischer, F. Laux, R. Repnow, T. Sieber, R. von Hahn, A. Wolf, A. Noda and H. Souda: The diagnostic system at the Cryogenic Storage Ring CSR. In: Proceedings of IPAC'10 IPAC'10/ACFA, Proceedings on European JACoW Server, Seq. No.: MOPD092 (2010) 918-920.
- Grieser, M., R. Bastert, K. Blaum, R. Epking, K. Horn, R. von Hahn, O. Koschorrek, R. Repnow, M. Werle and A. Wolf: Acceleration, deceleration and bunching of stored and cooled ion beams at the TSR, Heidelberg. In: JACoW Proceedings **HIAT9**, Seq. No.: TU-14 (2010) 1-5.
- Karamysheva, G., A. I. Papash and C. P. Welsch: Design of a Combined Fast and Slow Extraction for the Ultra-low Energy Storage Ring (USR). In: Joint Accelerator Conferences Website (JACoW) **IPAC10**, Seq. No.: mopd022 (2010) 723-725.
- Kaufmann, S., S. Wagner, I. Jung and O. Tibolla: The X-/VHE gamma-ray connection of BL Lac objects. In: Proceedings of X-Ray Astronomy 2009 AIP Conference Proceedings **1248**. AIP, Melville (2010) 451-452.
- Kohler, M. C. and K. Z. Hatsagortsyan: Relativistic high-order harmonic generation. In: Modern optics and photonics : atoms and structured media World Scientific, Singapore [u.a.] (2010) 16-31.
- Kopp, J., V. Niro, T. Schwetz-Mangold and J. Zupan: Leptophilic Dark Matter in Direct Detection Experiments and in the Sun. In: Proceedings of Science **IDM2010**, Seq. No.: 118 (2010).
- Le Bleis, T., D. Rossi, A. Klimkiewicz, P. Adrich, K. Boretzky, F. Aksouh, H. Alvarez-Pol, T. Aumann, J. Benlliure, M. Boehmer, E. Casarejos, M. Chartier, A. Chatillon, D. Cortina-Gil, U. Datta Pramanik, H. Emling, O. Ershova, B. Fernandez-Dominguez, H. Geissel, M. Gorska, M. Heil, H. Johansson, A. R. Junghans, O. Kiselev, J. V. Kratz, N. Kurz, M. Labiche, R. Lemmon, Y. Litvinov, K. Mahata, P. Maierbeck, T. Nilsson, C. Nociforo, R. Palit, S. Paschalis, R. Plag, R. Reifarth, H. Simon, K. Sümmerer, A. Wagner, W. Walus, H. Weick and M. Winkler: Target dependence in the study of collective modes in stable and exotic Ni nuclei. In: Journal of Physics: Conference Series **202**, 1, Seq. No.: 012035 (2010) 1-4.
- Lindroos, M., B. McElrath, C. Orme and T. Schwetz: Measuring neutrino mass with radioactive ions in a storage ring. In: Journal of Physics: Conference Series **203**, 1, Seq. No.: 012098 (2010) 1-3.
- Lindroos, M., B. McElrath, C. Orme and T. Schwetz: Measuring neutrino mass with radioactive ions in a storage ring. In: Proceedings of the 11th International Workshop on Neutrino Factories, Superbeams and Beta Beams—NuFact09 AIP Conference Proceedings **1222**. AIP, Melville (2010) 165-168.
- Macovei, M., G. Y. Kryuchkyan and G.-X. Li: Entangled light and matter waves via non-linear interactions. In: Modern optics and photonics : atoms and structured media World Scientific, Singapore [u.a.] (2010) 32-47.
- Münzenberg, G., H. Geissel and Y. A. Litvinov: From J. J. Thomson to FAIR, what do we learn from Large-Scale Mass and Half-Life Measurements of Bare and Few-Electron Ions?. In: Proceedings of the International Conference on Exotic Nuclei Sochi (Russia), 28 September–2 October 2009 AIP Conference Proceedings **1224**. AIP, Melville (2010) 28-46.
- Mulser, P. and D. Bauer: Anharmonic resonance in intense laser-matter interaction: Key to collisionless absorption. In: Proceedings of the The 2nd International Conference on ultra-intense laser interaction science AIP Conference Proceedings **1209**. AIP, Melville (2010) 75-78.
- Nagaya, K., A. Sugishima, H. Iwayama, K. Murakami, M. Yao, H. Fukuzawa, X.-J. Liu, K. Motomura, K. Ueda, N. Saito, A. Rudenko, M. Kurka, K.-U. Kühne, J. Ullrich, L. Foucar, A. Czasch, R. Dörner, R. Feifel, M. Nagasono, A. Higashiya, T. Togashi, M. Yabashi, T. Ishikawa, H. Kimura and H. Ohashi: Formation of the energetic doubly charged Ne ion by irradiation of large neon clusters using intense EUV-FEL pulses at 52 nm. In: Journal of Physics: Conference Series **235**, 1, Seq. No.: 012019 (2010).
- Nakao, M., T. Hirosama, H. Souda, H. Tongu, A. Noda, K. Jimbo, T. Shirai, M. Grieser, H. Okamoto and A. V. Smirnov: Optical measurement of transverse laser cooling with synchro-betatron coupling. In: Proceedings of IPAC'10 IPAC'10/ACFA, Proceedings on European JACoW Server, Seq. No.: MOPD072 (2010) 858-860.
- Natale, G., R. J. Tuffs, J. Fischera, N. Lu, C. C. Popescu, C. K. Xu, P. Appleton, F. Boulanger, M. Dopita, P. Duc, Y. Gao, P. Ogle, G. P. des Forets, W. Reach, J. Sulentic and M. Yun: Dust Emission from Stephan's Quintet. In: Proceedings of Hunting for the Dark AIP Conference Proceedings **1240**. AIP, Melville (2010) 85-86.
- Noda, A., M. Nakao, H. Souda, H. Tongu, K. Jimbo, T. Shirai, M. Grieser and A. Smirnov: Approach to 2 dimensional laser cooling and its optical observation system. In: JACoW Proceedings **HIAT9**, Seq. No.: D06 (2010) 1-4.
- Ohm, S. for the Hess Collaboration: H.E.S.S. observations towards the massive stellar cluster Westerlund 1. (2010).
- Ohm, S. for the Hess Collaboration: H.E.S.S. observations of massive stellar clusters. In: High Energy Phenomena in Massive Stars ASP Conference Series, High Energy Phenomena in Massive Stars **422**. Astronomical Society of the Pacific, San Francisco (2010) .
- Papash, A. I., O. Gorda and C. P. Welsch: Simulation of Space Charge Effects in Low-energy Electrostatic Storage Rings. In: Joint Accelerator Conferences Website (JACoW) **IPAC10**, Seq. No.: TUPD014 (2010) 1952-1954.
- Popescu, C. C. and R. J. Tuffs: The Evolution of Galaxies: an Infrared Perspective. In: Proceedings of Hunting for the Dark : the side of galaxy formation AIP Conference Proceedings **1240**. AIP, Melville (2010) 35-46.
- Ren, X., A. Senfleben, T. Pflüger, M. Holzwarth, A. Dorn, K. Bartschat, I. Bray, V. D. Fura, J. Colgan, M. S. Pindzola, O. Al-Hagan, H. D. Madison and J. Ullrich: Three-dimensional cross sections for electron impact ionization of atoms and molecules. In: Journal of Physics: Conference Series **212**, 1, Seq. No.: 012003 (2010) 1-6.
- Rodejohann, W.: Non-Unitary PMNS Matrix, Leptogenesis and Low Energy CP Violation. In: Neutrino Factories, Superbeams, and Beta Beams : 11th International Workshop on Neutrino Factories, Superbeams and Beta Beams—NuFact09, (Eds.) Daniel Kaplan et al. AIP Conference Proceedings **1222**. AIP, Melville (2010) 93-97.
- Rodriguez, D., K. Blaum, R. B. Cakirli, M. Heck, L. Schweikhardt, S. Stahl and M. Ubieta-Diaz: Broad-Band FT-ICR MS for the Penning-Trap Mass Spectrometer MATS. In: VIII Latin American Symposium on Nuclear Physics and Applications, (Eds.) Ricardo Alarcon et al. AIP Conference Proceedings **1265**. AIP, Melville (2010) 483-486.
- Schmelling, M., N. Whitehead, M. Britsch, N. Gagunashvili, H. K. Gudmundsson and H. Neukirchen: RAVEN—a Random Access, Visualization and Exploration Network for the Analysis of Petabyte Sized Data Sets. In: JINR **D-11-2010-140** (2010) 432-432.
- Schönert, S.: Neutrinoless Double Beta Decay. In: Journal of Physics Conference Series **203**, Seq. No.: 012014 (2010).
- Schuh, M., F. Gerigk, J. Tüchtmantel and C. P. Welsch: Higher

- order mode analysis of the SPL Cavities. In: Joint Accelerator Conferences Website (JACoW) **IPAC10**, Seq. No.: THPE082 (2010) 4713-4715.
- Schwarz, S., G. Bollen, M. Johnson, O. Kester, M. Kostin, J. Ottarson, M. Portillo, C. Wilson, J. R. Crespo López-Urrutia and J. Dilling: The NSCL electron beam ion trap for the reacceleration of rare isotopes coming to life: First extraction tests with a high-current electron gun. In: Review of Scientific Instruments **81**, 2, Seq. No.: 02A503 (2010).
- Schwetz-Mangold, T.: Neutrino Physics: a Theoretical Review. In: Proceedings of Science **FPCP2010**, Seq. No.: 051 (2010) 1-10.
- Schwetz, T.: Direct detection data and possible hints for low-mass WIMPs. In: Proceedings of Science **IDM2010**, Seq. No.: 070 (2010) 1-7.
- Smorra, C., T. Beyer, K. Blaum, M. Block, K. Eberhardt, M. Eibach, F. Herfurth, J. Ketelaer, K. Knuth, W. Nörtershäuser and S. Nagy: High-Precision Mass Measurements At TRIGA-TRAP. In: International Symposium on Exotic Nuclei, (Eds.) Yu. E. Penionzhkevich et al. AIP Conference Proceedings **1224**. AIP, Melville (2010) 544-551.
- Souda, H., M. Nakao, T. Hiroshima, H. Tongu, A. Noda, H. Okamoto, A. V. Smirnov, K. Jimbo, M. Grieser and T. Shirai: Transverse laser cooling by synchro-betatron coupling. In: Proceedings of IPAC'10 IPAC'10/ACFA, Proceedings on European JACoW Server, Seq. No.: MOPD073 (2010) 861-863.
- Speckmayer, P., A. Höcker, J. Stelzer and H. Voss: The toolkit for multivariate data analysis - TMVA 4. In: Journal of Physics: Conference Series **219**, 3, Seq. No.: 032057 (2010) 1-11.
- Tajima, T., B. C. Barish, C. P. Barty, S. Bulanov, P. Chen, J. Feldhaus, J. Hjd, C. H. Keitel, J.-C. Kieffer, D.-K. Ko, W. Leemans, D. Normand, L. Palumbo, K. Rzazewski, A. Sergeev, Z.-M. Sheng, F. Takasaki and M. Teshima: Science of Extreme Light Infrastructure. In: Proceedings of Light at extreme intensities-opportunities and technological issues of the extreme light infrastructure : LEI 2009 AIP Conference Proceedings **1228**. AIP, Melville (2010) 11-35.
- Takahashi, T., T. Kishshita, Y. Uchiyama, T. Tanaka, K. Yamaoka, D. Khangulyan, F. A. Aharonian, V. Bosch-Ramon and J. A. Hinton: Study of the gamma-ray binary LS5039 with Suzaku. In: Proceedings of X-ray astronomy 2009 : present status, multi-wavelength approach and future perspectives AIP Conference Proceedings **1248**. AIP, Melville (2010) 211-212.
- Welsch, C. P., S. Artikova, R. Fiorito, A. Shkvarunets and H. Zhang: Beam Halo Studies for CTF3. In: Joint Accelerator Conferences Website (JACoW) **IPAC10**, Seq. No.: WEPEB075 (2010) 2872-2874.
- Yordanov, D. T.: Laser spectroscopy in the island of inversion. In: Hyperfine Interactions **196**, 1-3 (2010) 53-60.
- Zhang, H. D., R. B. Fiorito, A. G. Shkvarunets, S. Bernal, I. Haber, R. A. Kishek, P. G. O'Shea, S. Artikova and C. Welsch: Beam Halo Imaging with an Adaptive Optical Mask. In: Joint Accelerator Conferences Website (JACoW) **BIW10**, Seq. No.: WECNB03 (2010) 543-547.
- Zhong, Q., T. Aumann, S. Bishop, K. Blaum, K. Boretzky, F. Bosch, H. Bräuning, C. Brandau, T. Davinson, I. Dillmann, O. Ershova, H. Geissel, G. Gyürky, M. Heil, F. Käppeler, A. Kelic, C. Kozhuharov, C. Langer, T. Le Bleis, Y. A. Litvinov, G. Lotay, J. Marganiec, N. Petridis, R. Plag, U. Popp, R. Reifarth, B. Riese, C. Rigollet, C. Scheidenberger, H. Simon, T. Stöhlker, T. Szücs, G. Weber, H. Weick, D. F. A. Winters, N. Winters and P. J. Woods:  $^{96}\text{Ru}(\text{p}\gamma)^{97}\text{Rh}$  measurement at the GSI storage ring. In: Journal of Physics: Conference Series **202**, Seq. No.: 012011 (2010) 1-4.

## At Conferences and Symposia

- Aarhus, Denmark, Third International Workshop on Electrostatic Storage Devices (21.06.-25.06.2009)  
**Orlov, D.A.:**  
*Experimental Opportunities with Cryogenic Electrostatic Ion Storage Rings.*
- Aarhus, Denmark, Workshop on Studies of Atoms and Molecules with New Light Sources (27.05.-29.05.2009)  
**Moshhammer, R.:**  
*Fragmentation of atoms and molecules in intense FEL light pulses.*
- Abingdon, UK, Nu Flavour Workshop: Flavour physics in the era of precision neutrino experiments (08.06.-10.06.2009)  
**Adulpravitchai, A.:**  
*Non-Abelian Discrete Flavor Symmetries from Orbifolding T2/ZN.*  
**Schwetz-Mangold, T.:**  
*Neutrinos at the LHC.*
- Alcala de Henares, Spain, RENATA Meeting (23.06.2009)  
**de Ona Wilhelmi, E.:**  
*The H.E.S.S. Telescope Array.*
- Allahabad, India, Workshop Neutrinos in Physics, Astrophysics and Cosmology (NuHorizons 09) (07.01.-09.01.2009)  
**Rodejohann, W.:**  
*Deviations from tri-bimaximal mixing.*
- Amsterdam, NL, Kolloquium am NIKHEF (13.02.2009)  
**Lindner, M.:**  
*Neutrinos as probes of new physics.*
- Assergi, Italy, TAUP 2009: International Conference on Topics in Astroparticle and Underground Physics, LNGS/Rome (01.07.-05.07.2009)  
**Schönert, S.:**  
*Neutrinoless double beta decay.*
- Athens, Greece, 4<sup>th</sup> Intern. Workshop on Very Large Volume Neutrino Telescopes (13.10.2009)  
**Hofmann, W.:**  
*Gamma Ray Astroparticle Physics.*
- Bad Honnef, Germany, 426. WE-Heraeus-Seminar: Atomic Theory for Fundamental Interactions and Simple Systems in Strong Fields (19.01.-21.01.2009)  
**Keitel, C. H.:**  
*Relativistic laser-induced ionization and recollision processes.*
- Bad Honnef, Germany, 433. WE-Heraeus-Seminar: Anions – from the lab to the stars (07.06.-11.06.2009)  
**Wolf, A.:**  
*Cryogenic Ion Beam Storage and the Electrostatic Cooler Ring CSR.*
- Bad Honnef, Germany, 434. WE-Heraeus-Seminar: Precision experiments at lowest energies for fundamental tests and constants (15.06.-17.06.2009)  
**Ullrich, J.:**  
*Ions and photons: A brilliant marriage at Free Electron Lasers.*  
**Nagy, S.:**  
*High-precision atomic masses with applications in fundamental physics.*
- Barcelona, Spain, 18<sup>th</sup> Annual International Laser Physics Workshop (LPhys'09) (13.07.-17.07.2009)  
**Bauer, D.:**  
*Relativistic Attosecond Electron Bunches from Laser-Illuminated Droplets.*
- Di Piazza, A.:**  
*Refractive QED Effects in Intense Laser Fields.*
- Harman, Z.:**  
*Strong-field laser acceleration of ions for cancer hadron therapy.*
- Keitel, C. H.:**  
*Laser-driven particle physics.*
- Pálffy, A.:**  
*Coherent control and keV single-photon entanglement in nuclear forward scattering.*
- Zubairy, M. S.:**  
*Reversing the weak measurement of an arbitrary field.*
- Ullrich, J.:**  
*Atoms, molecules and clusters in the brilliant light of Free Electron Lasers.*
- Moshhammer, R.:**  
*Fragmentation of atoms and molecules in CE-phase stabilized laser pulses.*
- Bautzen, CERN Sommerschule, 2009 European School of High-Energy Physics (14.06.-27.06.2009)  
**Lindner, M.:**  
*Vortragsreihe Neutrinophysik.*
- Beijing, China, 10<sup>th</sup> International Conference on Nucleus-Nucleus Collisions NN2009 (16.08.-21.08.2009)  
**Litvinov, Y.:**  
*Beta-Decay of Highly-Charged Ions.*
- Beijing, China, 5<sup>th</sup> International Summer School on Subatomic Physics "Some New facet of Nuclear Physics", Peking University (23.08.-27.08.2009)  
**Litvinov, Y.:**  
*Non-Exponential Decay in Electron Capture of Heavy Ions.*
- Berkeley, CA, USA, Workshop on The Future of Ultrafast Soft X-ray Science (30.11.-03.12.2009)  
**Ullrich, J.:**  
*Brilliant FEL light: New frontiers in AMO research (plenary talk).*
- Berkeley, USA, LBNL, ALS Users' Meeting, "Quantum Systems, Clusters and Assembled Materials - From Understanding to Control of Matter" (17.10.2009)  
**Crespo López-Urrutia, J.:**  
*Interactions of highly charged ions with X-ray photons studied with synchrotrons and free-electron lasers.*
- Berlin, Germany, SFB 450 Workshop ACU IV (Analysis and control of ultrafast photoinduced reactions) (08.10.-10.10.2009)  
**Ullrich, J.:**  
*Attosecond steering of electronic motion.*
- Bochum, Germany, 1<sup>st</sup> European Nuclear Physics Conference, Ruhr-Universität Bochum (16.03.-20.03.2009)  
**Litvinov, Y.:**  
*Non-Exponential Decay in Electron Capture of Heavy Ions.*
- Bochum, Germany, DPG Spring Meeting 2009 (16.03.-20.03.2009)  
**Schuh, M.:**  
*Higher order modes in the superconducting cavities of the SPL.*
- Bochum, Germany, DPG-Tagung, Hadronen und Kerne (16.03.-20.03.2009)  
**Buck, C.:**  
*Der Double Chooz Szintillator.*

- Kaether, F.:**  
*PMT Kalibrationen fuer Double Chooz.*
- Bonn, Germany, 19<sup>th</sup> International IUPAP Conference on Few-Body Problems in Physics (31.08-05.09.2009)
- Jochim, S.:**  
*Efimov physics with ultracold atoms.*
- Bonn, Germany, DPG Frühjahrstagung Teilchenphysik (03.2009)
- van Eldik, C.:**  
*Fermi, H.E.S.S., MAGIC, CTA: Gamma-Astronomie inner- und außerhalb der Erdatmosphäre.*
- Bonn, Germany, DPG-Tagung (15.03.-16.03.2009)
- Maneschg, W.:**  
*Background suppression strategies in Borexino for solar pep and CNO neutrino spectroscopy.*
- Brasov, Romania, LEI 2009 (16.10.-21.10.2009)
- Keitel, C. H.:**  
*High-energy quantum dynamics in extremely strong laser pulses. (plenary talk)*
- Buenos Aires, Argentina, High Energy Phenomena In Relativistic Outflows II (26.10.-30.10.2009)
- Khangulyan, D.:**  
*Microquasar Jet Models.*
- Charlottesville, Virginia, USA, 40<sup>th</sup> Annual Meeting of the APS Division of Atomic, Molecular and Optical Physics (DAMOP 2009) (19.05.-23.05.2009)
- Keitel, C. H.:**  
*Strong-field physics at relativistic intensity.*
- Wolf, A.:**  
*Breakup of Molecular Ions by Slow Electron Collisions.*
- Chicago, USA, 11<sup>th</sup> International Workshop on Neutrino Factories, Superbeams and Bet beams (NuFact 09) (20.07.-25.07.2009)
- Lindner, M.:**  
*Superbeams and Beta Beams.*
- Rodejohann, W.:**  
*Non-unitary lepton mixing, leptogenesis and low energy CP violation.*
- Schwetz-Mangold, T.:**  
*Working Group convener.*
- Como, Italy, Accretion and Ejection in AGN: A global view (22.06.-26.06.2009)
- Volpe, F.:**  
*Overview of the recent AGN observations with H.E.S.S.*
- Como, Italy, Plasmas in the Laboratory and in the Universe (01.12.-04.12.2009)
- Aharonian, F. A.:**  
*Relativistic plasmas in the Universe.*
- Daresbury, UK, Workshop on Advanced QED Methods for Future Accelerators (03.03.-04.03.2009)
- Di Piazza, A.:**  
*Vacuum polarization effects in intense laser fields.*
- Hatsagortsyan, K. Z.:**  
*Lepton pair creation in strong laser fields.*
- Darmstadt, Germany, GSI, International Summer Student Program (03.09.-25.09.2009)
- Litvinov, Y.:**  
*Nuclear Astrophysics at the ESR.*
- Darmstadt, Germany, NUSTAR Annual Meeting, GSI (25.03.-27.03.2009)
- Pálffy, A.:**  
*Resonant nuclear excitation via coupling to the atomic shell.*
- Delphi, Greece, ICO Photonics (07.10.-09.10.2009)
- Keitel, C. H.:**  
*Ultra-intense laser pulses: From vacuum refractivity to nuclear quantum control.*
- Denver, CO, USA, April Meeting of the American Physical Society (02.05.-05.05.2009)
- Litvinov, Y.:**  
*Non-Exponential Decay in Electron Capture of Heavy Ions.*
- Djurönäset, Sweden, International Workshop on the Interrelationship between Plasma Experiments in Laboratory and Space (IPELS) (08.06.-12.06.2009)
- Kempf, S.:**  
*Dust in Planetary Ring Systems.*
- Dresden, Germany, International Workshop on Atomic Physics (ATOM2009) (23.11.-27.11.2009)
- Moshhammer, R.:**  
*Atoms and molecules in intense XUV laser pulses.*
- Sansone, G.:**  
*Ultra-fast dynamics in finite atomic and molecular systems probed with novel light sources.*
- Dresden, Germany, Key Experiments with X-ray Pulses from the Perspective of Theory, MOLX09 (10.09.-12.09.2009)
- Wolf, A.:**  
*X-Ray Ionization and Fragmentation of Small Water Cluster Ions*
- Dorn, A.:**  
*FEL studies on a magneto-optically trapped lithium target.*
- Rudenko, A.:**  
*Multiphoton reactions in atoms, pump-probe experiments on clusters.*
- Moshhammer, R.:**  
*Break-up of molecules and pump-probe experiments.*
- Pfeifer, T.:**  
*Time-resolved x-ray science: Attosecond interferometry and shaped-field control of atoms, molecules, and electrons.*
- Ullrich, J.:**  
*Key experiments with X-ray pulses.*
- Dublin, Ireland, 3<sup>rd</sup> Workshop on the physics at EBITs and advanced research light sources (PEARL 2009) (06.05-09.05.2009)
- Moshhammer, R.:**  
*Fragmentation of atoms and molecules in strong IR laser fields.*
- Crespo López-Urrutia, J.:**  
*Photon-ion interactions studied with electron beam ion traps.*
- Ullrich, J.:**  
*New frontiers in atomic, molecular and optical physics at VUV and X-ray Free Electron Lasers.*
- Erice, Italy, 31<sup>st</sup> International School of Nuclear Physics (16.09.-24.09.2009)
- Lindner, M.:**  
*Neutrinos in Cosmology, in Astro, in Particle and in Nuclear Physics.*
- Rodejohann, W.:**  
*Scaling in the neutrino mass matrix and the see-saw mechanism.*
- Fortaleza, Brazil, The Universe and General Relativity (26.05-29.05.2009)
- Aharonian, F. A.:**  
*Exploring Nature's Extreme Accelerators with VHE Gamma Rays, Neutrinos and Hard X-rays.*

- Gdansk, Poland, 41<sup>st</sup> EGAS (European Group on Atomic Systems) conference (08.07.-11.07.2009)  
**Rudenko, A.:**  
*Few-electron dynamics in intense short XUV pulses.*
- Geneva, Switzerland, CERN, 2<sup>nd</sup> LHCb Workshop on Multi Variate Analysis (10.07.2009)  
**Schmelling, M.:**  
*Basics of Multi Variate Analysis in High Energy Physics.*  
**Gagunashvili, N. D.:**  
*Under- and Oversampling Techniques.*  
*Selecting Optimal Sets of Variables.*
- Geneva, Switzerland, CERN, ENTAPP Dark Matter workshop 2009 (02.02.-06.02.2009)  
**Schwetz-Mangold, T.:**  
*DAMA/LIBRA claim and WIMP properties.*
- Geneva, Switzerland, CERN, International Conference on Particle Physics and Cosmology (07.09.-11.09.2009)  
**Bezrukov, F.:**  
*Inflation and the Higgs boson.*  
**Schwetz-Mangold, T.:**  
*DAMA/LIBRA and leptonicly interacting Dark Matter.*
- Geneva, Switzerland, CERN, Workshop on Soft Diffractive Physics at LHCb (26.06.2009)  
**Schmelling, M.:**  
*Prospects for Forward Physics with LHCb.*
- Geneva, Switzerland, CERN, Workshop on the European Strategy for Future Neutrino Physics (01.10.-03.10.2009)  
**Schwetz-Mangold, T.:**  
*Neutrino Phenomenology.*
- Hamburg, Germany, DPG Frühjahrstagung (02.03.-06.03.2009)  
**Bauer, D.:**  
*Atoms and Clusters in Intense Laser Fields. (main talk)*  
**Dorn, A.:**  
*Controlling double photoionization in lithium. (Hauptvortrag)*  
**Fischer, D.:**  
*Dynamik des Elektroneneinfangs in Stößen von hochgeladenen Ionen mit Atomen.*  
**Beilmann, C.:**  
*Trielectronic Recombination with K-shell excitation.*  
**Elisseev, S.:**  
*PENTATRAP: A precision Penning trap mass spectrometer for highly-charged ions.*
- Hamburg, Germany, DPG Frühjahrstagung, Symposium: Ultra-fast Dynamics in FEL Light Pulses (02.03.-06.03.2009)  
**Rudenko, A.:**  
*Atoms and molecules in intense FEL radiation.*  
**Epp, S. W.:**  
*Spectroscopy of highly charged ions with Free Electron Lasers.*
- Hamburg, Germany, HASYLAB Users' Meeting "Research with Synchrotron Radiation and FELs", (30.01.2009)  
**Ullrich, J.:**  
*New frontiers in atomic, molecular and optical physics with Free Electron Lasers.*  
**Crespo López-Urrutia, J.:**  
*Soft X-ray laser spectroscopy at FLASH.*
- Hamburg, Germany, Photon 2009 (11.05.-15.05.2009)  
**van Eldik, C.:**  
*Very-High-Energy Gamma-Ray Astronomy.*
- Heidelberg, Germany, Conference on Neutrinos and Dark Matter in Particle, Astroparticle and Nuclear Physics (LAUNCH09) (09.11.-12.11.2009)  
**Blaum, K.:**  
*Contributions to Neutrino Physics with Penning Traps.*  
**Buck, C.:**  
*The Double Chooz reactor neutrino experiment.*  
**Merle, A.:**  
*The GSI anomaly: Theoretical interpretations.*  
**Schwetz-Mangold, T.:**  
*Dark Matter: Evidences, Phenomenology, and Theoretical Implications.*
- Heidelberg, Germany, Heidelberg Astronomers' Convention (02.10.2009)  
**Casanova, S.:**  
*The origin of cosmic rays and the gamma ray emission from the Galaxy.*
- Heidelberg, Germany, High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources (13.01.-16.01.2009)  
**Kirk, J. G.:**  
*Acceleration and radiation in Poynting flux dominated jets.*  
**Taylor, A.:**  
*The CR Connection(s): UHE Neutrinos and Photons from UHECR Sources.*  
**Domainko, W.:**  
*New results from H.E.S.S. observations of galaxy clusters.*
- Heidelberg, Germany, ISAPP Summer Institute 2009 at KIT (30.07.2009)  
**Buck, C.:**  
*The Double Chooz reactor neutrino experiment.*
- Heidelberg, Germany, Meetings of the SFB/Transregio 27 - Neutrinos and Beyond (09.07-10.07.2009)  
**Aberle, C.:**  
*Optical Properties of the Double Chooz scintillators.*  
**Adulpravitchai, A.:**  
*Confronting Flavour Symmetries and Extended Scalar Sectors with Lepton Flavour Violation Phenomenology.*  
**Akhmedov, E.:**  
*Neutrino Oscillations from Quantum Field Theory.*  
**Merle, A.:**  
*Why the GSI Anomaly cannot be explained by Quantum Beats.*  
**Eliseev, S.:**  
*Neutrino Physics with Penning Traps at MPIK.*
- Hirschberg, Germany, Low Energy, Low Intensity Beam Profile Measurements (24.11.-25.11.2009)  
**Harasimowicz, J.:**  
*Diagnostics for the USR; low current BPMs.*  
**Putignano, M.:**  
*Design and performance of a ionization beam profile monitor based on a gasjet curtain for applications on low energy accelerator systems.*  
**Welsch, C. P.:**  
*FLAIR – A facility for low-energy antiproton and ion research.*
- Hirschberg-Großsachsen, Germany, DITANET Low Current, Low Energy Beam Diagnostics Workshop (23.11.-25.11.2009)  
**Grieser, M.:**  
*Diagnostics at CSR and TSR.*  
**von Hahn, R.:**  
*Overview of the CSR.*  
**Laux, F.:**  
*Low Current Beam Position Monitors for the Cryogenic Storage Ring.*
- Ischia, Italy, Ultra-Fast Dynamic Imaging of Matter II (30.04.-03.05.2009)  
**Ullrich, J.:**

- Attosecond steering of electronic motion in atoms and molecules via ~6 fs phase stabilized pulses.*
- Isola d'Elba, Italy, Forward Physics at LHC (27.05.-29.05.2010)  
**Schmelling, M.:**  
*Forward Physics at LHCb.*
- Istanbul, Turkey, 5<sup>th</sup> Workshop on Shape-Phase Transitions and Critical Point Phenomena in Nuclei (16.09.-18.09.2009)  
**Blaum, K.:**  
*Masses and Structure: Limits and Perspectives.*
- Jaen, Spain, High Energy Phenomena in Massive Stars (02.02.-05.02.2009)  
**Ohm, S.:**  
*H.E.S.S. observations of massive stellar clusters.*  
**Bosch-Ramon, V.:**  
*Non-thermal emission in microquasars hosting massive stars.*
- Jyväskylä, Finland, Jyväskylä Summer School (10.08.-14.08.2009)  
**Blaum, K.:**  
*Basics of the determination of nuclear ground state properties.*  
*Cooling and detection of charged particles.*  
*High-resolution laser spectroscopy experiments.*  
*High-precision mass measurements.*
- Kalamazoo, MI, USA, XXVI International Conference on Photonic, Electronic and Atomic Collisions, ICPEAC (22.07.-28.07.2009)  
**Wolf, A.:**  
*Atomic and Molecular Collisions with Ultra-Cold Electron and Ion Beams.*  
**Pálffy, A.:**  
*Resonant nuclear excitation via coupling to the atomic shell.*  
**Dorn, A.:**  
*Electron collisions with atoms and molecules.*  
**Fischer, B.:**  
*Electron localization in fragmentation of H<sub>2</sub> with CEP stabilized laser pulses.*  
**Schröter, C. D.:**  
*Atomic and molecular dynamics in intense FEL radiation.*  
**Simon, M.:**  
*Photoionization of ions in arbitrary charge states by synchrotron radiation in an Electron Beam Ion Trap.*
- Kreuth, Germany, Schloss Ringberg, International Coincidence Workshop (09.12.-12.12.2009)  
**Dorn, A.:**  
*Coincidence experiments using electrons and positrons.*  
**Moshammer, R.:**  
*Fragmentation dynamics in intense laser fields.*
- Kyoto, Japan, 2<sup>nd</sup> International Symposium on Laser-Driven Relativistic Plasmas Applied to Science, Industry and Medicine (19.01.-23.01.2009)  
**Harman, Z.:**  
*Direct high-power laser acceleration of ions for medical applications.*
- Lexington, USA, International Symposium on (e, 2e), Double Photoionization and Related Topics (31.07.-01.08.2009)  
**Kremer, M.:**  
*Electron localization in molecular fragmentation with CEP stabilized laser pulses.*  
**Jiang, Y.:**  
*Ultra-fast dynamics in atoms and molecules driven by free electron laser radiation.*  
**Ren, X.:**
- Three-dimensional cross sections: (e,2e) on atoms and molecules.*
- Lisbon, Portugal, 5<sup>th</sup> SPARC Collaboration Symposium (01.09.-04.09.2009)  
**Hetzheim, H.:**  
*Ionization dynamics in laser-driven hydrogen-like ions.*  
**Pálffy, A.:**  
*Nuclear effects in atomic transitions. (review talk)*  
**Wolf, A.:**  
*Precision Electron Collision Spectroscopy of Highly Charged Ions.*  
**Winckler, N.:**  
*Observation of non-exponential orbital electron capture decays of hydrogen-like <sup>140</sup>Pr, <sup>142</sup>Pm and <sup>122</sup>I ions.*
- London, UK, Kolloquium am Imperial College (13.05.2009)  
**Lindner, M.:**  
*Neutrinos as probes of new physics.*
- Luxor, Egypt, BUE, CTP International Conference on Neutrino Physics in the LHC era (15.11.-19.11.2009)  
**Akhmedov, E.:**  
*Moessbauer Experiments with Neutrinos and Neutrino Oscillations.*  
**Lindner, M.:**  
*SUSY now or never.*  
**Rodejohann, W.:**  
*Tri-bimaximal mixing: deviations and alternatives.*
- Madrid, Spain, XVII International Workshop on Deep-Inelastic Scattering and Related Subjects (27.04.2009)  
**Britsch, M.:**  
*First measurements with the LHCb experiment.*
- Manhattan, KS, USA, 2<sup>nd</sup> International Conference on Attosecond Physics (Atto-2009) (28.07.-01.8.2009)  
**Fischer, B.:**  
*Electron localization in fragmentation of H<sub>2</sub> with CEP stabilized laser pulses.*  
**Ullrich, J.:**  
*Brilliant FEL light: New frontiers in AMO physics (overview).*  
**Hatsagortsyan, K. Z.:**  
*High-order harmonic and short pulse generation in the relativistic regimes.*
- Marciana Marina, Isola d'Elba, Italy, International Workshop Pulsars in their Diversity (15.06.2009)  
**Kirk, J. G.:**  
*Theory of pulsar winds and nebulae.*
- Matsushima, Japan, International Workshop on Electronic Spectroscopy for Gas-phase Molecules and Solid Surfaces (IWES2009) (12.10.-15.10.2009)  
**Ullrich, J.:**  
*Molecular dynamics in the light of next generation sources.*
- Melbourne, Australia, Australian Astron. Soc. Annual Meeting (05.07.-08.07.2009)  
**Aharonian, F. A.:**  
*Gamma-ray/X-ray astrophysics and future directions.*
- Menlo Park, CA, USA, SLAC, SSRL/LCLS Users' Meeting (18.10.-21.10.2009)  
**Crespo López-Urrutia, J.:**  
*Electron Beam Ion Trap end station.*
- Milano, Italy, 6<sup>th</sup> AGILE Workshop (22.05.-23.05.2009)  
**Casanova, S.:**  
*Molecular Clouds as Cosmic ray Barometers.*
- Montréal, Canada, Quantum Dynamic Imaging Workshop (19.10.-23.10.2009)

- Keitel, C. H.:**  
*Time-dependent quantum relativistic phenomena at high intensity.*
- Moscow, Russia, 14<sup>th</sup> Lomonosov Conference on Elementary Particle Physics (19.08.-25.08.2009)  
**Förster, A.:**  
*The Gamma-Ray Sky Seen with H.E.S.S.*
- Moscow, Russia, 2<sup>nd</sup> EMMI Workshop on Plasma Physics with Intense Laser and Heavy Ion Beams, JIHT, (14.05.-15.05.2009)  
**Hatsagortsyan, K. Z.:**  
*High-energy processes in super-strong laser fields.*
- Moscow, Russia, Conference in Honour of Yu. Gaponov's 75th birthday (14.10.-15.10.2009)  
**Akhmedov, E.:**  
*Neutrinos on Earth and in the Heavens.*
- München, Germany, 1<sup>st</sup> MPG-RIKEN/ASI Bilateral Conference on Interdisciplinary Cooperation (21.01.-23.01.2009)  
**Ullrich, J.:**  
*Science at XFELs.*
- München, Germany, DPG Tagung (09.03.-13.03.2009)  
**Schmelling, M.:**  
*Ergebnisse und Perspektiven der Flavour Physik.*  
**Aberle, Ch.:**  
*Eigenschaften der Double Chooz Szintillatoren.*  
**Adulpravitchai, A.:**  
*A Supersymmetric D4 Model for mu-tau Symmetry.*  
**Buck, C.:**  
*Das Reaktor-neutrinoexperiment Double Chooz.*  
**Maneschg, W.:**  
*<sup>11</sup>C analysis and muon tracking in Borexino for solar pep and CNO neutrino spectroscopy.*  
**Zuzel, G.:**  
*Radon emanation of the GERDA inner detector.*
- New London, NH, USA, Gordon Research Conference 2009 (Nuclear Chemistry) Colby Sawyer College (21.06.-26.06.2009)  
**Litvinov, Y.:**  
*Non-Exponential Decay in Electron Capture of Heavy Ions.*
- New York, USA, GALEX Guest Investigator Workshop (13.11.2009)  
**Tuffs, R. T.:**  
*GALEX and the Galaxy and Mass Assembly Survey (GAMA).*
- Nijmegen, Netherlands, 3<sup>rd</sup> International Summer School on Astroparticle Physics (Nijmegen 09) (19.08.-28.08.2009)  
**Rodejohann, W.:**  
*Neutrino mass, lepton mixing and the see-saw mechanism.*
- Nizhny Novgorod, Russia, Russian-French-German Laser Symposium (17.05.-22.05.2009)  
**Evers, J.:**  
*Effects of density and chirality on light propagation through coherently prepared media.*
- Norfolk, Virginia, USA, 21<sup>st</sup> International Symposium on Ion-Atom Collisions (XXI ISIAC) (17.07.-20.07.2009)  
**Fischer, D.:**  
*Dynamics of charge transfer in ion-atom collisions.*  
**Voitkiv, A.:**  
*Electron-electron interaction and transfer-ionization in fast ion-atom collisions.*
- Obergurgl, Austria, Winter School of the Heidelberg Graduate School of Fundamental Physics (06.01.-11.01.2009)  
**Evers, J.:**  
*Quantum optics in collective systems. (2 x 90 min.)*
- Otaru, Japan, The Energetic Cosmos: from Suzaku to ASTRO-H (02.07.2009)  
**de Ona Wilhelmi, E.:**  
*Latest results on Galactic Sources with Gamma-ray detectors.*
- Paris, France, 10<sup>th</sup> Workshop on Non-Perturbative Quantum Chromodynamics (08.06.-12.06.2009)  
**Di Piazza, A.:**  
*Refractive QED Effects in Strong Laser Fields.*  
**Ruf, M.:**  
*Lepton pair creation in intense laser fields.*
- Paris, France, APC, Workshop on Frontiers in Theoretical Neutrino Physics (15.03.-18.03.2009)  
**Lindner, M.:**  
*Theoretical Interpretations of Precision Neutrino Measurements.*
- Paris, France, Extreme Light Infrastructure (ELI) Grand Challenges Meeting (27.04.-28.04.2009)  
**Rudenko, A.:**  
*Perspectives for multidimensional imaging of ultrafast few-particle reactions.*
- Paris, France, Groupe de Recherche Neutrino plenary meeting (27.04.-28.04.2009)  
**Schwetz-Mangold, T.:**  
*Present status of neutrino physics.*
- Paris, France, Invisible Universe International Conference, UNESCO (29.06.-03.07.2009)  
**Bezrukov, F.:**  
*Inflation in the Standard Model and  $\nu$ MSM with non-minimal coupling to gravity.*
- Paris, France, Tango (04.05.-06.05.2009)  
**Egberts, K.:**  
*The Cosmic-Ray Electron Spectrum Measured with H.E.S.S.*
- Paris, Frankreich, 12<sup>th</sup> Marcel Grossmann Meeting (13.07.2009)  
**Aharonian, F. A.:**  
*Gamma Ray Astrophysics.*  
**Kirk, J. G.:**  
*Particle Acceleration and Radiation at Relativistic Shocks.*
- Piaski, Poland, 31<sup>st</sup> Mazurian Lakes Conference on Physics "Nuclear Physics and the Road to FAIR" (30.08.-06.09.2009)  
**Litvinov, Y.:**  
*Direct Mass Measurements in Storage Rings.*
- Pittsburgh, USA, APS March Meeting (16.03.-20.03.2009)  
**Jochim, S.:**  
*Few-body physics in a three-component degenerate Fermi gas.*
- Pohang, Korea, Shock Waves, Turbulence and Particle Acceleration (18.11.2009)  
**Kirk, J. G.:**  
*Radiative Signatures of Relativistic Shocks.*  
**Reville, B.:**  
*Particle Acceleration and Turbulence Generation at Collisionless Shocks.*
- Postdam, Germany, EPSC 2009 (13.09.-18.09.2009)  
**Kempf, S.:**  
*Long-term evolution of Saturn's E ring particles.*

- Poznan, Poland, VIII International Workshop on Application of Lasers in Atomic Nuclei Research (22.06.-25.06.2009)  
**Blaum, K.:**  
*High-precision Penning trap experiments for fundamental studies.*  
**Yordanov, D.:**  
*Laser Spectroscopy in the Island of Inversion: Past and Future.*
- Prerow, Germany, Workshop "Dense QCD Phases in Heavy Ion Collisions and Supernovae" (11.10.-13.10.2009)  
**Jochim, S.:**  
*Few-body physics in a three-component degenerate Fermi gas.*
- Reims, France, Neutrino Champagne, LowNu2009 (19.10 - 21.10.2009)  
**Buck, C.:**  
*New experimental developments: scintillators.*  
**Lindner, M.:**  
*Interpretations of precision neutrino measurements.*  
**Schönert, S.:**  
*Neutrinoless double beta decay.*
- Riezlern, Austria, 30. Arbeitstagung Energiereiche Atomare Stöße (08.02.-13.02.2009)  
**Fischer, B.:**  
*Electron wave packet interferences in ultrashort laser pulses.*  
**Kremer, M.:**  
*Fragmentation von H<sub>2</sub>-Molekülen in ultrakurzen, phasenstabilisierten Laserpulsen.*  
**Ullrich, J.:**  
*Sequential and non-sequential ionisation in the VUV regime at FLASH.*
- Riezlern, Austria, Workshop of Accelerator and Plasma Physics (08.03.-14.03.2009)  
**von Hahn, R.:**  
*The Heidelberg Cryogenic Storage Ring and its Test Facility CTF.*
- Riyadh, Saudi Arabia, KACST 2<sup>nd</sup> Symposium on Quantum Optics and Informatics (14.03.-16.03.2009)  
**Evers, J.:**  
*Coherent control of flux qubits.*
- Rome, Italy, RICAP09 (13.05.-15.05.2009)  
**Egberts, K.:**  
*The Cosmic-Ray Electron Spectrum Measured with H.E.S.S.*  
**Förster, A.:**  
*The Gamma-Ray Sky Seen with H.E.S.S.*
- Rome, Italy, The eleventh international conference on Topics in Astroparticle and Underground Physics, TAUP2009 (01.07.-05.07.2009)  
**Raue, M.:**  
*M 87 and Cen A: laboratories for VHE physics of jets and near supermassive black holes.*
- Rome, Italy, Workshop "Efimov States in molecules and nuclei: Theoretical methods and new experiments" (19.10.-21.10. 2009)  
**Jochim, S.:**  
*Universal trimer states in a three-component Fermi gas.*
- Rome, Italy, XIth International Conference on Topics in Astroparticle and Underground Physics (TAUP 2009) (01.07.-05.07.2009)  
**Akhmedov, E.:**  
*Moessbauer Effect with Neutrinos and Neutrino Oscillations.*
- San Diego, USA, SPIE Optics + Photonics (02.08.-06.08.2009)  
**Förster, A.:**  
*Mirror Development for CTA.*
- San Francisco, USA AGU 2009 (14.12.-18.12.2009)  
**Kempf, S.:**  
*Long-term evolution of Saturn's E ring particles.*
- Sant Benet, Spain, Workshop "Quantum Gauge Theories and Ultracold Atoms" (01.09.-04.09.2009)  
**Jochim, S.:**  
*A three-component gas of ultracold fermions.*
- Sant Feliu, Spain, Bose-Einstein Condensation 2009 (BEC 2009) (05.09.-11.09.2009)  
**Jochim, S.:**  
*Universal trimer states in a three-component Fermi gas.*
- Santa Barbara, USA, Nonlinear Processes in Astrophysical Plasmas (28.09.2009)  
**Kirk, J. G.:**  
*Radiative Signatures of Relativistic Shocks.*  
**de Ona Wilhelmi, E.:**  
*The Extension of the H.E.S.S. Galactic Plane Survey.*  
**Reville, B.:**  
*Magnetic Field Amplification and Particle Transport in Collisionless Shocks.*
- Santiago de Chile, Chile, VIII Latin American Symposium on Nuclear Physics and Applications (15.12.-19.12.2009)  
**Blaum, K.:**  
*Precision mass measurements for physics beyond the Standard Model.*
- Schleching, Arbeitstreffen Kernphysik (26.02.-05.03.2009)  
**Lindner, M.:**  
*Neutrinos: Standard and Non-Standard Interpretations.*
- Shanghai, China, Galactic Center Workshop (19.10.-23.10.2009)  
**van Eldik, C.:**  
*The H.E.S.S. View of the Galactic Centre Region.*
- Smithfield, RI, USA, Gordon Research Conference 2009 (Nuclear Physics) Bryant University (12.07.-17.07.2009)  
**Litvinov, Y.:**  
*Non-Exponential Decay in Electron Capture of Heavy Ions.*
- Sochi, Russian Federation, International Symposium on Exotic Nuclei EXON-2009 (28.09.-02.10.2009)  
**Litvinov, Y.:**  
*Beta-Decay of Highly-Charged Ions.*
- Sofia, Bulgaria, 36<sup>th</sup> EPS Conference on Plasma Physics (29.06.2009)  
**Kirk, J. G.:**  
*Prolific Pair Production with Next Generation Lasers.*
- Stanford, CA, USA, 1<sup>st</sup> AMO Meeting (12.03.-13.03.2009)  
**Epp, S. W.:**  
*Status, layout, and capabilities of the CAMP chamber.*
- Stanford, CA, USA, 2009 SSRL/LCLS Users' Meeting and Workshop on LCLS Beam Line for Soft X-Ray Science (19.10.-23.10.2009)  
**Ullrich, J.:**  
*Electron beam ion trap (EBIT) end station.*  
**Beilmann, C.:**  
*HI-light - highly charged ions in the ultra-brilliant light of the LCLS.*
- Stanford, USA, TeV Particle Astrophysics 2009 (13.07.-17.07.2009)  
**Hofmann, W.:**  
*News from the VHE gamma-ray observatories: status*

- and galactic sources.*  
**van Eldik, C.:**  
*Cosmic Ray Electrons and Galactic Centre Observations with H.E.S.S.*
- Stockholm, Sweden, NORDITA program Astroparticle Physics - A Pathfinder to New Physics (13.04.-18.04.2009)  
**Schwetz-Mangold, T.:**  
*Can the DAMA annual modulation be explained by Dark Matter?*
- Strasbourg, France, French Neutrino Community Meeting (GDR-2009) (28.10-29.10.2009)  
**Akhmedov, E.:**  
*Moessbauer Experiments with Neutrinos and Neutrino Oscillations.*
- Tokyo, Japan, Joint Gamma-ray Mission Meeting (10.03.-11.03.2009)  
**Aharonian, F. A.:**  
*Probing Cosmic PeVatrons with hard X-rays and low-energy gamma rays.*
- Torino, Italy, Euro Science Open Forum (ESOF) (02.07.-07.07.2010)  
**Welsch, C. P.:**  
*Ions, light and antimatter: Various roads into the quantum world.*
- Trento, Italy, ECT workshop on "The lead radius experiment and neutron rich matter in astrophysics and in the laboratory" (03.07.-07.07.2009)  
**Blaum, K.:**  
*Precision measurements of nuclear ground state properties for nuclear structure studies.*
- Trento, Italy, ECT workshop on Atomic Effects in Nuclear Excitations and Decay (15.06.-19.06.2009)  
**Litvinov, Y.:**  
*Orbital Electron-Capture Rates from Few-Electron Ions.*  
**Pálffy, A.:**  
*Nuclear excitation by electron capture in storage rings.*  
**Crespo López-Urrutia, J.:**  
*Nuclear excitations in highly charged ions through electronic transitions.*
- Trieste, Italy, International Workshop on the Science with and the Instrumentation for Small Quantum Systems at the European XFEL" 2009 and "1<sup>st</sup> IRUVX-PP Annual Meeting" (11.03.2009)  
**Crespo López-Urrutia, J.:**  
*Laser spectroscopy of highly charged ions using soft x-ray FEL radiation.*
- Trieste, Italy, Workshop Towards Neutrino Technologies (13.07-17.07.2009)  
**Akhmedov, E.:**  
*Moessbauer Effect with Neutrinos and Neutrino Oscillations.*  
**Lindner, M.:**  
*Towards Neutrino Technologies.*
- Trondheim, Norway, SOCoR Workshop (15.06.-18.06.2009)  
**Taylor, A.:**  
*UHECRs- Knowns and Unknowns.*
- Tübingen, Germany, Graduate Day (24.04.2009)  
**Merle, A.:**  
*Theoretical analysis of the GSI anomaly.*
- Tübingen, Germany, Graduiertentag Basel-Graz-Tübingen on "Hadronen im Vakuum, in Kernen und Sternen" (24.04.2009)  
**Litvinov, Y.:**  
*Experimental Status of the GSI Oscillations.*
- Ustron, Poland, Matter to the Deepest: Recent Developments in Physics of Fundamental Interactions (USTRON'09) (13.09.-16.09.2009)  
**Schwetz-Mangold, T.:**  
*Can the DAMA/LIBRA annual modulation signal be explained by Dark Matter?*
- Veldhoven, Netherlands, Physics @ FOM (21.01.-23.01.2009)  
**Ullrich, J.:**  
*Reaction microscopes: The 'cloud chambers' of atomic and molecular physics.*
- Venice, Italy, HIAT09 (08.06-12.06.2009)  
**Grieser, M.:**  
*Acceleration, Deceleration and Bunching of Stored Cooled Ion Beams at the TSR, Heidelberg.*  
**von Hahn, R.:**  
*Status of the Cryogenic Storage Ring CSR.*
- Venice, Italy, XIII International Workshop on Neutrino Telescopes (10.03.-13.03.2009)  
**Lindner, M.:**  
*Standard and Non-Standard Interpretations.*
- Waikoloa, USA Int. Workshop on Double Beta Decay and Related Neutrino Measurements, DBD09 (11.10.-13.10.2009)  
**Knöpfle, K.T.:**  
*Status and progress of GERDA.*
- Waikoloa, USA, 3<sup>rd</sup> Joint meeting of the Nuclear Physics Divisions of the APS and JPS, HAW09 (13.10.-17.10.2009)  
**Knöpfle, K.T.:**  
*Status and progress of GERDA.*
- Washington D.C., USA: American Chemical Society Meeting (16.08.2009)  
**Simgen, H.:**  
*Direct measurement of the 7Be solar neutrino flux at Borexino in session: The Chemistry and Physics of Neutrino Experiments.*
- Würzburg, Germany, Neutrino masses and lepton flavor violation at the LHC (24.11.-25.11.2009)  
**Rodejohann, W.:**  
*Simple ratios of LFV charged lepton decays in see-saw scenarios.*
- Yerevan, Armenia, International Advanced Research Workshop "Modern Problems in Optics and Photonics" (27.08-02.09.2009)  
**Evers, J.:**  
*Light propagation: From atomic to nuclear quantum optics.*  
**Hatsagortsyan, K. Z.:**  
*High-order harmonic generation in relativistic regimes in super-strong laser fields.*  
**Macovei, M.:**  
*Entangled light and matter waves via nonlinear interactions.*
- Zion National Park, USA, SILAP (2009) Workshop on Super Intense Laser-Atom Physics (21.09.-23.09.2009)  
**Bauer, D.:**  
*Laser-Generated Relativistic Attosecond Electron Bunches.*  
**Harman, Z.:**  
*High-power optical acceleration of ions for medical applications.*  
**Hatsagortsyan, K. Z.:**  
*Relativistic quantum dynamics in strong laser fields.*  
**Müller, C.:**  
*High-energy processes in very intense laser fields.*  
**Moshhammer, R.:**

*Fragmentation of atoms and molecules in CE-phase stabilized laser pulses.*

## At Other Institutes 2009

**Aharonian, F. A.:**

*Exploring the Universe with Very High Energy Gamma Rays.*

Barcelona, Spain, opening talk at the inauguration of the Institut de Ciències del Cosmos, University of Barcelona (04.12.2009)

**Akhmedov, E.:**

*Moessbauer Experiments with Neutrinos and Neutrino Oscillations.*

Naples, Italy, Università di Napoli (04.12.2009) and Paris, France, LPTH Jussieu (25.06.2009) and Saclay, France, CEA IPHT (24.06.2009)

**Bauer, D.:**

*Matter in intense laser fields: from the single active electron via correlation to collectivity.*

Halle, Germany, MLU (Martin Luther University Halle-Wittenberg), seminar on Nonequilibrium Many-Body Systems (11.05.2009) and Jena, Germany, Friedrich Schiller University of Jena, IOQ, seminar talk (13.02.2009)

*Atoms and clusters in strong laser pulses: from the single active electron via correlation to collectivity.*

Düsseldorf, Germany, Heinrich Heine University Düsseldorf (22.01.2009)

**Blaum, K.:**

*Präzisionsexperimente an gespeicherten und gekühlten Ionen in Penning-Fallen.*

Physikalisches Kolloquium, Universität Erlangen, Germany (19.01.2009) and Seminar, Kirchhoff-Institut, Universität Heidelberg, Germany (31.01.2009) and Physikalisches Institut, Technische Universität Dresden, Germany (12.05.2009)

*High-accuracy Penning trap mass measurements on exotic ions for fundamental studies.*

The Royal Swedish Academy of Sciences Chalmers, Göteborg, Sweden (17.02.2009)

*High-accuracy Penning trap mass measurements on exotic ions for fundamental studies.*

AlbaNova, University Physics Center, Stockholm, Sweden (19.02.2009)

*Precision Penning trap experiments with cooled and stored ions.*

Institut für Experimentalphysik, Universität Innsbruck, Austria (24.03.2009)

*Präzisionsexperimente an gespeicherten und gekühlten exotischen Ionen in Penning-Fallen.*

Universität Münster, Germany (30.04.2009) and Max-Planck-Institut für Plasmaphysik, Greifswald, Germany (06.11.2009)

*Geladene in Haft: spannende Experimente in Ionenfallen.*

Schülerinnen- und Schülertag, Universität Heidelberg, Germany (16.05.2009)

*Atome auf die Waage gelegt.*

Explore Science, Klaus-Tschira-Stiftung, Mannheim, Germany (14.06.2009)

*Gewichtsprobleme physikalischer Art – Atome auf die Waage gestellt*

Georg-Forster-Gesamtschule, Wörrstadt, Germany, im Rahmen der MPG-Hauptversammlung (18.06.2009) and Emanuel-Felke-Gymnasium, Bad Sobernheim, Germany, im Rahmen der MPG-Hauptversammlung (18.06.2009)  
*Geladene in Haft - Präzisionsexperimente mit ges-*

*peicherten Ionen*

Gesprächskreis Rhein-Neckar, Kirchhoff-Institut, Universität Heidelberg, Germany (09.07.2009)

*Atome auf die Waage gelegt – Gewichtsprobleme physikalischer Art.*

Schulvortrag am CERN, Genf, Switzerland (24.07.2009)

*Precision Penning trap mass measurements for nuclear and astrophysical studies.*

Universität Basel, Switzerland (29.10.2009)

*High-precision Penning trap experiments with stored and cooled exotic ions.*

Universität Wuppertal, Germany (09.11.2009)

**Bosch Ramon, V.:**

*Non-thermal phenomena in high-mass microquasars.*

Heidelberg, Germany, Landessternwarte (06.05.2009)

*La física de la aceleración de partículas en objetos estelares jóvenes masivos.*

Instituto Villa Elisa, Argentina, Argentino de Radioastronomía, (15.07.2009)

*Emisión no térmica de pares en binarias masivas de rayos gamma.*

La Plata, Argentina, UNLP, Facultad de Ciencias Astronómicas y Geofísicas (15.09.2009)

*Galactic non-thermal emission and massive stars.*

Barcelona, Spain, Instituto de Ciències del Cosmos, (04.10.2009)

*Non-thermal emission from Galactic sources harboring massive stars.*

Valencia, Spain, Universitat de Valencia (08.10.2009)

*Emisión no térmica en estrellas masivas en formación.*

La Plata, Argentina, UNLP, Jornadas sobre formación estelar, Facultad de Ciencias Astronómicas y Geofísicas (16.11.2009)

**Buhr, H.:**

*Hot Water in a Cool Place - Dissociative Recombination of  $D_3O^+$ .*

IAMP, JLU Gießen, Germany (29.10.2009)

**Crespo López-Urrutia, J.:**

*Photoionization of trapped highly charged ions using synchrotron radiation.*

Gießen, Germany, Universität Gießen (02.07.2009)

*Highly charged ions: Producing hot astrophysical matter in traps.*

Aarhus, Denmark, University of Aarhus, Dept. Atomic Physics (06.07.2009)

*Photonic interactions of highly charged ions with synchrotron and FEL radiation.*

East Lansing, Michigan State University, NSCL (23.10.2009)

**de Ona Wilhelmi, E.:**

*On the Nature of the H.E.S.S. Dark Sources.*

Paris, France, Ecole Polytechnique France (02.02.2009)

**Di Piazza, A.:**

*Testing strong-field QED and QED with intense laser fields.*

Glasgow, Scotland, UK, Department of Physics of the Strathclyde University, (24.09.2009) and

Didcot, England, UK, Rutherford Appleton Laboratory (21.09.2009) and

Jena, Germany, Friedrich Schiller University of Jena, Institute of Theoretical Physics (23.07.2009)

**Domainko, W.:**

*The H.E.S.S. experiment – a window to the extreme universe.*

Innsbruck, Austria, Universität Innsbruck (18.08.2009)

**Egberts, K.:**

*The cosmic-ray electron spectrum measured with*

- H.E.S.S.**  
Innsbruck, Austria, Seminar Universität Innsbruck (25.05.2009)  
*The energy spectrum of cosmic-ray electrons at TeV energies.*  
Aachen, Germany, Seminar RWTH Aachen (21.07.2009)
- Evers, J.:**  
*Licht und Wellen.*  
Mannheim, Germany, Explore Science, Naturwissenschaftliche Erlebnistage, Luisenpark Mannheim (17.06.2009),  
*Coherent control of quantum dynamics.*  
Erlangen, Germany, Naturwissenschaftliche Fakultät, Universität Erlangen-Nürnberg, seminar talk (02.02.2009)
- Fischer, D.:**  
*Momentum spectroscopy in ion-storage rings - from atomic and molecular collision dynamics to precision spectroscopy on highly charged ions.*  
Groningen, Netherlands, KVI-Kolloquium (07.04.2009)
- Froese, M.:**  
*Cryogenic cooling and delayed emission of aluminum canion clusters.*  
Weizmann Institute, Rehovot, Israel (05.08.2009)
- Harman, Z.:**  
*Resonant processes in highly charged ions.*  
Giessen, Germany, Justus Liebig University Giessen, seminar on atom physics (10.12.2009)
- Hatsagortsyan, K. Z.:**  
*Relativistic multiphoton dynamics in super-strong laser fields: from above-threshold ionization to pair production.*  
Trieste, Italy, Summer College on Plasma Physics, ICTP, tutorial (17.08.-21.08.2009)
- Hofmann, W.:**  
*Blaue Blitze aus dem Kosmos – auf der Jagd nach kosmischen Teilchenbeschleunigern.*  
München, Germany, Deutsches Museum, Vorträge für jedermann (04.02.2009)  
*The Galaxy in a new light: high energy gamma ray astronomy with H.E.S.S.* Hamburg, Germany, DESY, Seminar (10.02.2009)  
*Blaue Blitze aus dem Kosmos – auf der Jagd nach kosmischen Teilchenbeschleunigern.*  
Augsburg, Germany, Universität Augsburg, MNU-Tag (01.10.2009)
- Jochim, S.:**  
*Experiments with ultracold fermions.*  
Karlsruhe, Germany, Condensed Matter Seminar, Universität (12.01.2009)  
*Few- and many-body physics with ultracold fermions.*  
Chicago, USA, JFI Physics Colloquium, The University of Chicago (20.01.2009)  
*Few-body physics with an ultracold gas of fermions.*  
Bonn, Germany, Theorieseminar, Universität (03.02.2009) and  
Zürich, Switzerland, Laserseminar, ETH (08.03.2009) and  
Austin, TX, USA, Ultracold gases seminar, University of Texas (14.08.2009)  
*Efimov physics with ultracold fermions.*  
Amsterdam, The Netherlands, Van der Waals-Zeeman colloquium, Universität (24.11.2009)
- Jones, D.:**  
*Recent efforts in understanding CR transport and diffusion: The Galactic centre.*  
Hamburg, Germany, DESY (18.06.2009)
- Khangulyan, D.:**  
*Gamma-Ray Binary Systems.*  
Stockholm, Sweden, Nordic Institute for Theoretical Physics (06.05.2009)  
*Formation of Hard Very High Energy Gamma-Ray Spectra of Blazars due to Internal Photon-Photon Absorption.*  
Stockholm, Sweden, Nordic Institute for Theoretical Physics (14.05.2009)  
*Flow and Emission Models for Different Astrophysical Objects.*  
Tokyo, Japan, Institute for Space and Astronautical Science (25.09.2009)  
*VHE Gamma-Ray Production in Binary Systems.*  
Tokyo, Japan, University of Tokyo (29.09.2009)
- Kirk, J. G.:**  
*Prolific pair production in laser beams.*  
Palaiseau, France, Colloquium, Ecole Polytechnique (22.06.2009) and  
Sydney, Australia, University of Sydney, Colloquium, School of Physics (04.12.2009)  
*Pulsar Winds as Astrophysical Laboratories.*  
Perth, Australia, University of Western Australia, Colloquium, International Centre for Radio Astronomy Research (03.12.2009) and  
Marsfield, Australia, Colloquium, Australia Telescope National Facility, (07.12.2009)
- Knöpfle, K.T.:**  
*Study of neutrinoless double beta decay of Ge-76 with GERDA.*  
Heidelberg, Germany, Universität Heidelberg, Physikalisches Institut, Pizza-Night (04.05.2009)
- Kreim, S.:**  
*Observation of a single proton in a Penning trap.*  
ISOLDE group seminar, CERN, Geneva, Switzerland (07.12.2009)
- Lindner, M.:**  
*Neutrinos as probes of new physics.*  
Manchester, UK, Colloquium (12.05.2009)
- Litvinov, Y.:**  
*Lebensdauermessungen an hochgeladenen Ionen.*  
Justus-Liebig Universität Giessen (Fachgruppe Physik FB07), Germany (09.02.2009)  
*Non-exponential Two-Body Beta Decay of Stored Hydrogen-Like Ions.*  
Joint Theory and High-Energy-Physics Seminar PNPI, Gatchina, Russia (24.09.2009)  
*Nuclear Physics with Stored Exotic Nuclei. I - Direct Mass Measurements.*  
IMP, Lanzhou, China (12.10.2009)  
*Nuclear Physics with Stored Exotic Nuclei. II - Decay Studies of Highly Charged Ions.*  
IMP, Lanzhou, China (14.10.2009)
- Lötstedt, E.:**  
*QED in strong laser fields.*  
Tokyo, Japan, Tokyo University, Yamanouchi group seminar (24.01.2009)
- Merle, A.:**  
*Lepton flavour and neutrino mass aspects of the Ma-model.*  
Southampton, U.K., Friday Seminar, University of Southampton (30.10.2009)  
*The GSI anomaly.*  
Dubna, Russia, Bogoljubov Laboratory Seminar, JINR (05.02.2009)

- Moshhammer, R.:**  
*Atoms and molecules in intense laser fields.*  
 Halle, Germany, Theorie-Kolloquium Universität Halle (28.10.2009)  
*Atomic collision and fragmentation dynamics.*  
 Lanzhou, China, lecture series, Institute of Modern Physics, Chinese Academy of Sciences (10.11.2009-13.11.2009)  
*Der "inneren" Uhr von Atomen und Molekülen auf der Spur: Experimente mit ultrakurzen Laserpulsen.*  
 Frankfurt, Germany, Physikalisches Kolloquium, Universität Frankfurt (14.01.2009)  
*Fragmentation of atoms and molecules in intense laser fields.*  
 Jena, Germany, Laserphysik-Seminar, Universität Jena (12.06.2009)
- Müller, C.:**  
*Relativistic multiphoton physics: How many weak photons - when acting together - can become strong.*  
 Giessen, Germany, Justus Liebig University Giessen, seminar on ATOMIC physics (19.11.2009)  
*Relativistic electron-ion recollisions in intense laser fields.*  
 Beijing, China, Chinese Academy of Science, Institute of Physics, seminar talk (24.10.2009) and  
 Changsha, China, National University of Defense Technology, Physics Department, seminar talk (22.10.2009)  
*Quantum Dynamics of Electrons and Atoms in Intense Photon Fields: From Einstein's Photoelectric Effect to Modern Laser Applications in Physics and Medicine*  
 Changsha, China, National University of Defense Technology, Physics Department, lecture talk (21.10.2009)  
*Energetic electron-ion recollisions in intense laser fields.*  
 Darmstadt, Germany, Atomphysik-Seminar der Gesellschaft für Schwerionenforschung (GSI), seminar talk (29.04.2009)
- Natale, G.:**  
*Dust Emission from Stephan's Quintet.*  
 Granada, Spain, University of Granada (06.05.2009)
- Pálffy, A.:**  
*Nuclear excitation by electron capture and isomer triggering.*  
 Livermore, USA, Laurence Livermore National Laboratory, NIF and Photon Science Seminar (20.05.2009)  
*Coupling of nuclei to the atomic shell.*  
 Washington, USA, Naval Research Laboratory, Plasma Physics Division Seminar, (15.05.2009)
- Reville, B.:**  
*Particle Acceleration at Supernova Remnant Shocks.*  
 Sydney, Australia, School of Physics, University of Sydney (26.11.2009) and  
 Perth, Australia, International Center for Radio Astronomy Research (10.12.2009)
- Rodejohann, W.:**  
*Tri-bimaximal mixing: deviations and alternatives.*  
 Beijing, China, seminar at Center for High Energy Physics (21.10.2009)  
*Neutrino mixing and the see-saw mechanism.*  
 Beijing, China, Colloquium at Institute of High Energy Physics (20.10.2009) and  
 Ahmedabad, India, seminar of Physical Research Laboratory (11.01.2009)
- Rudenko, A.:**  
*Tracing few-particle dynamics in ultrafast laser-matter interactions.*  
 Vienna, Austria, Advanced Light Sources (ADLIS) Seminar, Technical University of Vienna (26.06.2009)
- Ruggenthaler, M.:**  
*Time-dependent density functional theory applied to laser matter interaction.*  
 Rostock, Germany, University of Rostock, seminar talk (13.10.2009)
- Schmelling, M.:**  
*Der Antimaterie auf der Spur.*  
 Mannheim, Germany, Explore Science, öffentlicher Vortrag (15.06.2009) and  
 Bad Sobernheim, Germany, Schulvortrag (16.06.2009) and  
 Worms, Germany, Schulvortrag (18.06.2009) and  
 Stromberg, Germany, Schulvortrag (18.06.2009)  
*Statistische Methoden der Datenanalyse – Parameteranpassungen.*  
 Karlsruhe, Germany, Institut für Technologie (18.08.2009)  
*The LHCb Experiment - Precision Measurements of CP-Violation and Rare Decays.*  
 Akureyri, Iceland, University of Akureyri (13.10.2009) and  
 Reykjavik, Iceland, University of Iceland (15.10.2009)
- Ullrich, J.:**  
*Ultra-fast dynamics: Pump-probe experiments from the visible to VUV and X-rays.*  
 Berlin, Germany, FU Berlin, Sfb 450 Seminar (20.01.2009)  
*Super-brilliant FELs: Neues Licht für die Wissenschaft.*  
 Hamburg, Germany, DESY Kuratorium (03.12.2009)
- Underwood, T.:**  
*From Leptogenesis to Searching for Invisible Higgs Bosons at the LHC.*  
 Munich, Germany, Theoretical High Energy Physics Seminar, Technical University of Munich (24.04.2009)
- Van Eldik, C.:**  
*The Milky Way in Very-High-Energy Gamma Rays.*  
 Dresden, Germany, Universität Dresden (01.2009)
- Voitkiv, A.:**  
*Ion-atom collisions.*  
 Lanzhou, China, lecture series, Institute for Modern Physics, Chinese Academy of Science (August-September 2009)
- Welsch, C.P.:**  
*Beam loss instrumentation developments.*  
 CERN, Geneva, Switzerland, CTF3 Collaboration Meeting (16.07.2009)  
*The USR at FLAIR.*  
 MSL, Stockholm, Sweden, FLAIR Collaboration Meeting (05.02.2009)
- Wolf, A.:**  
*Cold Chemistry with Fast Ion Beams.*  
 Institutskolloquium, Institut für Festkörperphysik, Universität Jena, Germany (29.05.2009)
- Yordanov, D.:**  
*Modern Stories on Collinear Laser Spectroscopy: On the Path to Higher Sensitivity and Higher Precision.*  
 Institut für Kernchemie, University of Mainz, Germany (25.05.2009)  
*Concepts of Laser Spectroscopy.*  
 CERN summer student program, ISOLDE-CERN, Geneva, Switzerland (29.07.2009)
- Zuzel, G.:**  
*Detection of rare physical processes.*  
 Krakow, Poland, seminar of the Polish Physical Society, Institute of Physics, Jagiellonian University (18.06.2009)  
*Standard Solar Model: metallicity of the Sun and solar neutrinos.*  
 Krakow, Poland, Astrophysics seminar, Institute of Physics, Jagiellonian University (25.03.2009)

**At Conferences and Symposia**

Aachen, Germany, Workshop Out-of-Equilibrium Quantum Fields in the Early Universe (06.09.-08.09.2010)

**Hohenegger, A.:**  
*Thermal Leptogenesis: A Nonequilibrium QFT Approach.*  
**Kartavtsev, A.:**  
*Resonant leptogenesis: A Nonequilibrium QFT Approach*

Abha, Saudi Arabia, 5<sup>th</sup> meeting of the Saudi Physical Society (SPS5) (25.10.-27.10.2010)

**Welsch, C. P.:**  
*Low energy storage rings: Opening routes for beyond state-of-the-art research.*

Adrasan, Turkey, 7<sup>th</sup> International Balkan School on Nuclear Physics (15.09.-22.09.2010)

**Blaum, K.:**  
*Precision mass spectrometric and laser spectroscopic measurements of nuclear ground-state properties for fundamental studies.*

Ahmedabad, India, WHEPP XI (02.01.-12.01.2010)

**Lindner, M.:**  
*SUSY now or never.*  
*Neutrino Masses and Mixings Now and in the Future.*

Allahabad, India, International Conference NuHorizons III (08.02-10.02.2010)

**Akhmedov, E.:**  
*Neutrinos: Status and Perspectives (opening talk).*

Argonne, USA, Workshop on Evolution and Control of Complexity: Key Experiments Using Sources of Hard X-rays (11.10.-13.10.2010)

**Evers, J.:**  
*Generation and detection of X-ray entanglement.*  
**Pálffy, A.:**  
*Quantum control of nuclei with coherent x-ray light.*

Assergi, Italy, International student workshop on neutrino-less double beta decay (11.11.-13.11.2010)

**Schönert, S.:**  
*Experimental techniques in double beta decay experiments and (selection of) active background suppression methods.*

Athens, Greece, 24<sup>th</sup> International Conference on Neutrino Physics and Astrophysics (Neutrino 2010) (14.06.-19.06.2010)

**Barnabé-Heider, M.:**  
*Semiconductor-based experiments for neutrinoless double beta decay search.*  
**Resconi, E.:**  
*High energy neutrino astronomy: IceCube.*  
**Rodejohann, W.:**  
*Neutrinoless double beta decay in particle physics.*

Athens, Greece, European Conference on Accelerators in Applied Research and Technology (ECAART 10) (13.09.-17.09.2010)

**von Hahn, R.:**  
*The Electrostatic Cryogenic Storage Ring CSR- a new instrument for the exploration of single ions up to massive clusters.*

Bad Honnef, Germany, 463. WE-Heraeus-Seminar: Ultra fast Atomic Physics – Towards the Zeptosecond Regime (19.08.-22.08.2010)

**Fischer, B.:**  
*Time resolved studies of  $H_2^+$  dissociation with CEP-stabilized laser pulses.*  
**Pfeifer, T.:**

*Beyond traditional time-resolved spectroscopy: Where to gain (and where to lose?) from using perfect coherence.*

**Fischer, D.:**  
*Dynamics in ion-impact induced ionization.*  
**Sansone, G.:**  
*Electron dynamics probed by attosecond pulses.*

Bad Honnef, Germany, 470. WE-Heraeus-Seminar: Particle Accelerators and High Intensity Lasers (13.12.-17.12.2010)

**Keitel, C. H.:**  
*Refractive QED, radiative reaction and nuclear processes with extremely intense laser pulses.*  
**Müller, C.:**  
*Lepton pair production induced by relativistic particle beams and intense laser fields.*

Barcelona, Spain, HEEPs conference (12.04.-16.04.2010)

**de Ona Wilhelmi, E.:**  
*Pulsars and PWN at TeV energies.*

Berkeley, California, USA, 10<sup>th</sup> International Colloquium on Atomic Spectra and Oscillator Strengths for Astrophysical and Laboratory Plasmas (03.08.-07.08.2010)

**Harman, Z.:**  
*Cross section enhancement in correlated resonant recombination processes.*

Berkeley, California, USA, Workshop on Antimatter Creation Using Intense Lasers (27.04.-28.04.2010)

**Müller, C.:**  
*Nonlinear QED processes in strong laser fields.*

Berkeley, USA, Workshop on Germanium-Based Detectors and Technologies (18.05.-20.05.2010)

**Schönert, S.:**  
*The GERDA neutrino-less double beta decay experiment.*

Berlin, Germany, HZB BESSY Users Meeting (10.12.2010)

**Crespo López-Urrutia, J.:**  
*Astrophysical highly charged ions brought to the laboratory.*

Bern, Switzerland, Large-scale magnetic fields in the Universe (01.03.-05.03.2010)

**Aharonian, F. A.:**  
*Gamma-ray sources and magnetic fields.*

Björkliden, Sweden, Nordic Winter Meeting on Physics at FAIR (21.03.-26.03.2010)

**Wolf, A.:**  
*Precision Electron Collision Spectroscopy of Highly Charged Ions.*

Bonn, Germany, DPG Frühjahrstagung (15.03.-19.03.2010)

**Hofmann, W.:**  
*Kosmische Teilchenbeschleuniger*  
**Nagy, S.:**  
*Towards high-precision mass measurements of neutron-rich fission products at TRIGA-SPEC.*

**Cakirli, R.B.:**  
*Structure of Ba with N~90 and Ra with N~132 from High Precision Mass Measurements of  $^{136-146}\text{Xe}$  and  $^{223-229}\text{Rn}$ .*

**Winckler, N.:**  
*Orbital electron capture of stored H-like ions.*

**Postberg, F.:**  
*Composition of the Enceladus Ice-Plume.*

**Adulpravitchai, A.:**  
*Flavored Orbifold GUT.*

**Barry, J.:**  
*Deviations from TBM in A4 neutrino mass models.*

**Bezrukov, F.:**  
*Light inflaton - connecting inflation and low energy*

- experiments.*  
*keV sterile neutrino Dark Matter in gauge extensions of the Standard Model.*  
**Haser, J.:**  
*Charakterisierung der Double Chooz Photomultiplier und Elektronik.*  
**Hohenegger, A.:**  
*Finite Density Aspects of Leptogenesis.*  
**Kartavtsev, A.:**  
*Systematic Approach to Leptogenesis in Nonequilibrium Quantum Field Theory.*  
**Reinhold, B.:**  
*Das Double Chooz Experiment.*  
**Rodejohann, W.:**  
*Neutrino massen: theoretischer Ursprung und Phänomenologie.*  
**Schönert, S.:**  
*Search for neutrinoless double beta decay.*  
**Schwetz-Mangold, T.:**  
*Neutrinos, Dunkle Materie und Physik jenseits des Standard-Modells (Hauptvortrag).*  
**Wagner, S.:**  
*Quenching-Effekte in den Fluessigszintillatoren des Double Chooz Experiments.*
- Bonn, Germany, SUSY10 (23.08.-28.08.2010)  
**Takahashi, R.:**  
*Cascade Textures in SUSY GUT.*
- Braunschweig, Germany, Seminar an der Physikalisch-Technischen Bundesanstalt PTB (24.06.2010)  
**Maneschg, W.:**  
*Use of Th-228 sources with reduced neutron fluxes at Laboratori Nazionali del Gran Sasso.*
- Bremen, Germany, 38<sup>th</sup> COSPAR Scientific Assembly (18.07.-25.07.2010)  
**Kirk, J. G.:**  
*Magnetic Field Dissipation in Pulsar Winds.*  
**Postberg, F.:**  
*The icy breath of Enceladus: Insight into a cryo-volcanic world.*  
*Saturnian stream particles – Nano-rocks from Enceladus?*  
**Srama, R.:**  
*Faint dusty rings and streams : in-situ observations with Cassini at Saturn.*  
**Domainko, W.:**  
*Gamma rays from starburst galaxies.*  
**Hofmann, W.:**  
*News from the VHE gamma-ray observatories: status and galactic sources.*
- Budapest, Hungary, RHIC School 2010 (29.11.-03.12.2010)  
**Jochim, S.:**  
*Ultracold strongly interacting Fermi gases.*
- Cape Town, South Africa, 5<sup>th</sup> International Conference on Beyond the Standard Models of Particle Physics, Cosmology and Astrophysics (01.02.-06.02.2010)  
**Aharonian, F. A.:**  
*Very High Energy Source Populations*  
**Lindner, M.:**  
*SUSY now or never.*
- Catania, Italy, CRIS 2010: "100 years of Cosmic Ray Physics: from pioneering experiments to physics in space" (13.09.-17.09.2010)  
**Aharonian, F. A.:**  
*Cosmic Rays and gamma-ray astronomy from ground.*  
**Hermann, G.:**  
*The future Cherenkov Telescope Array CTA.*
- Conca Specchiulla (Otranto), Italy, Neutrino Oscillations Workshop (NOW 2010) (04.09.-11.09.2010)  
**Akhmedov, E.:**  
*New MiniBooNE Results and Non-standard Neutrino Interactions.*  
**Lindner, M.:**  
*keV sterile neutrino Dark Matter in extensions of the Standard Model.*
- Crete, Greece, High Time Resolution Astrophysics (HTRA) IV (05.05.-07.05.2010)  
**Aharonian, F. A.:**  
*HTRA with Cerenkov Telescopes.*
- Darmstadt, Germany, EMMI Workshop: Data Requirements in Nuclear Astrophysics (25.07.-27.07.2010)  
**Litvinov, Y.:**  
*Beta-decay of highly-charged ions.*
- Darmstadt, Germany, EMMI Workshop: Neutron Matter in Astrophysics: From Neutron Stars to the R-Process GSI (15.07.-18.07.2010)  
**Litvinov, Y.:**  
*Broadband Mass Measurements in Storage Rings.*
- Darmstadt, Germany, GSI Darmstadt, NuSTAR Collaboration Meeting (26.03.2009)  
**Pálffy, A.:**  
*Resonant nuclear excitation via coupling to the atomic shell.*
- Darmstadt, Germany, Workshop "EMMI Physics Days", GSI Helmholtzzentrum für Schwerionenforschung (04.11.-05.11.2010)  
**Harman, Z.:**  
*Relativistic, quantum electrodynamic and nuclear effects in highly charged ions. (plenary talk)*  
**Jochim, S.:**  
*Deterministic preparation of a tunable few-fermion system.*
- Darmstadt, GSI, Germany, 9<sup>th</sup> Workshop on Recoil Separator for Superheavy Element Chemistry, TASCA10 (18.11.2010)  
**Nagy, S.:**  
*Towards online coupling of TRIGA-SPEC to the research reactor TRIGA Mainz.*
- Darmstadt, GSI, Germany, International Summer Student Program (02.08.-24.09.2010)  
**Litvinov, Y.:**  
*Nuclear Structure and Astrophysics III: Experiments at the ESR.*
- Darmstadt, GSI, Germany, NUSTAR Annual Meeting 2010 (05.03.2010)  
**Nagy, S.:**  
*TRIGA-SPEC at the reactor in Mainz.*
- Dresden, Germany, Double Beta Matrix Element Workshop (29.07.-30.07.2010)  
**Blaum, K.:**  
*Contribution to neutrino physics with Penning traps.*
- Dresden, Germany, International Focus Workshop "Molecules under X-ray Pulses" (15.11.-17.11.2010)  
**Rudenko, A.:**  
*Towards time-resolved imaging of dynamics in clusters, nano-crystals and viruses.*  
**Moshhammer, R.:**  
*Time-resolved molecular break-up reactions.*  
**Epp, S.:**  
*The CAMP instrument and electron holography.*
- Dresden, Germany, International Workshop on Atomic Physics (22.11.-26.11.2010)

- Pfeifer, T.:**  
*Novel Routes to Time-Resolved Spectroscopy by using Fully and Partially Coherent Light Fields.*
- Dublin, Ireland, 37<sup>th</sup> EPS Conference on Plasma Physics (21.06.2010)  
**Kirk, J. G.:**  
*Waves in Pulsar Winds.*
- Dublin, Ireland, 8<sup>th</sup> INTEGRAL Workshop: The Restless Gamma-ray Universe (27.09-30.09.2010)  
**Aharonian, F.A.:**  
*High Energy Sources above 10 MeV.*
- Durham, England, European Conference on Trapped Ions ECTI2010 (19.09.-24.09.2010)  
**von Hahn, R.:**  
*The Electrostatic Cryogenic Storage Ring CSR-a storage device for atomic, molecular and cluster ion experiments.*
- Eisenach, Germany, EMMI Workshop: Physics Prospects at the ESR and HITRAP (27.06.-30.06.2010)  
**Winckler, N.:**  
*Orbital electron capture of stored highly-charged ions.*  
**Fischer, D.:**  
*Dynamics of electron capture in slow ion-atom collisions.*
- Eisenach, Germany, Laboratory Astrophysics External Retreat (15.10.-16.10.2010)  
**Wolf, A.:**  
*Collisions of molecular ions and internal states.*
- Erice, Italy, Erice School/Workshop on Nuclear Physics "Particle and Nuclear Astrophysics" (16.09.-24.09.2010)  
**Casanova, S.:**  
*Gamma ray emission from molecular clouds.*
- Florence, Italy (Galileo Galilei Institute), Conference on The Dark Matter Connection: Theory and Experiment (17.05.-22.05.2010)  
**Schwetz-Mangold, T.:**  
*DM direct detection data and speculations on the low-mass WIMP region.*
- Fort Worth, Texas, USA, 21<sup>st</sup> International Conference on the Application of Accelerators in Research and Industry (CAARI 2010) (08.08.-13.08.2010)  
**Hatsagortsyan, K. Z.:**  
*Relativistic high-order harmonic generation and other effects.*  
**Epp, S. W.:**  
*FEL photons on trapped ions in EBITs.*  
**Wolf, A.:**  
*Cold Chemistry with Fast Ion and Electron Beams.*
- Foz do Iguaçu, Brazil, 19<sup>th</sup> International Laser Physics Workshop (LPhys'10) (05.07.-09.07.2010)  
**Di Piazza, A.:**  
*Testing strong-field CED and QED with intense laser fields.*  
**Harman, Z.:**  
*Intense high-quality medical proton beams via laser fields.*  
**Macovei, M.:**  
*Single-cycle quantum dynamics induced by an ultra-short laser pulse.*
- Galveston, USA, Gordon Research Conference on Photoions, Photoionization and Photodetachment (31.01.-05.02.2010)  
**Rudenko, A.:**  
*Time-resolved imaging of few-photon, few-electron reactions.*
- Garching, Germany, SILMI Workshop on Frontiers in Intense Laser-Matter Interaction Theory, Max Planck Institute for Quantum Optics (01.03.-03.03.2010)  
**Di Piazza, A.:**  
*Testing strong-field CED and QED with intense laser fields.*  
**Keitel, C. H.:**  
*Laser-induced high-energy processes.*
- Geneva, Switzerland, CERN, Planck 2010 (31.05.-04.06.2010)  
**Bezrukov, F.:**  
*Light inflaton - cosmology and experiments.*
- Geneva, Switzerland, CERN, Theory institute on Neutrino Theory, Models and Experimental Perspectives (NuTheME) (13.09.-22.09.2010)  
**Rodejohann, W.:**  
*Theoretical desiderata in measurements of mixing parameters.*
- Giessen, Germany, HGS-HiRe Giessener Lecture Week on Nuclear structure, Schloss Rauischholzhausen (11.01.-15.01.2010)  
**Blaum, K.:**  
*Basics of the determination of nuclear ground state properties.*  
*Cooling and detection of charged particles.*  
*High-resolution laser spectroscopy experiments.*  
*High-precision mass measurements.*
- Göttingen, Germany, DUSTY VISIONS Workshop (14.07.-16.07.2010)  
**Postberg, F.:**  
*Enceladus: Insight into a cryo-volcanic world from CDA dust spectrometry.*
- Granlibakken, Lake Tahoe, USA, Eighth International Conference on Dissociative Recombination: Theory, Experiments and Applications, DR2010 (16.08.-20.08.2010)  
**Buhr, H.:**  
*Studies of polyatomic DR with a new energy-sensitive imaging detector.*  
*Dissociative recombination of D3O<sup>+</sup> studied with a new energy-sensitive imaging detector.*  
**Krantz, C.:**  
*The Cryogenic Storage Ring and its application to molecular ion recombination physics.*  
**Novotný, O.:**  
*Fragment imaging for cold electron collisions with molecular ions.*  
**Schwalm, D.:**  
*Rotational cooling of HD<sup>+</sup> by superelastic collisions with electrons.*  
**Wolf, A.:**  
*Current developments in electron collision studies of molecular ions.*
- Groningen, Netherlands, Program Workshop "Nanoworld in Action" (07.06.-08.06.2010)  
**Ullrich, J.:**  
*Brilliant FEL light – new frontiers in AMO research and beyond.*
- Günzburg, Germany, Joint CPTS/BMS workshop at Schloss Reisingen (27.09.-28.09.2010)  
**Epp, S. W.:**  
*The Advanced Study Group and CAMP.*  
**Ullrich, J.:**  
*Free Electron Lasers – Status and opportunities.*
- Guwahati, India, Photonics India 2010 (11.12.-15.12.2010)  
**Schmid, S.:**  
*Arrays of microcavities coupled to atoms and fibers.*

- Hamburg, Germany, DESY, 7<sup>th</sup> XDAC meeting (25.05.2010)  
**Epp, S. W.:**  
*Results & Experiences for the pnCCDs in CAMP.*
- Hamburg, Germany, DESY, Physics at the LHC 2010 (06.2010)  
**Maciuc, F.** (on behalf of LHCb collaboration):  
*Tracking and alignment in LHCb.*  
**Hofmann, W.:**  
*Highlights from astroparticle physics.*
- Hamburg, Germany, DESY, Workshop on Multi Parton Interactions (13.09.-15.09.2010)  
**Schmelling, M.:**  
*Minimum Bias Physics at LHCb.*
- Hamburg, Germany, DLR-Kongress (01.09.2010)  
**Srama, R.:**  
*Cassini am Saturn: Entdeckungen des CDA.*
- Hamburg, Germany, International Symposium on Frontiers in Quantum Photon Science (11.11.-12.11.2010)  
**Ullrich, J.:**  
*Brilliant FEL light: New frontiers in atomic and molecular physics.*
- Hannover, Germany, DPG Frühjahrstagung (08.03.-12.03.2010)  
**Ketelaer, J.:**  
*Mass measurements on neutron-rich fission products and actinoids at TRIGA-TRAP.*  
**Laux, F.:**  
*Mass Selective Acceleration at the Heavy Ion Storage Ring TSR*  
**Wolf, A.:**  
*Cold Electron Collisions at Ion Storage Rings.*  
**Di Piazza, A.:**  
*Testing strong-field CED and QED with intense laser fields. (main talk)*  
**Crespo López-Urrutia, J.:**  
*Exciting and ionizing trapped highly charged ions with electrons and photons in an EBIT.*  
**Dorn, A.:**  
*COLTRIMS used for (e,2e). (Hauptvortrag)*  
**Kremer, M.:**  
*Electron localization in fragmentation of H<sub>2</sub> with CEP stabilized laser pulses.*  
**Jochim, S.:**  
*Few-body physics with ultracold atoms.*  
**Ullrich, J.:**  
*Quantum dynamics visualized by reaction microscopes: from intense virtual towards real attosecond photon fields. (Hauptvortrag)*  
*Molecular dynamics: Imaging from within (Hauptvortrag).*
- Hannover, Germany, DPG Frühjahrstagung, Joint Symposium SYPS (08.03.-12.03.2010)  
**Crespo López-Urrutia, J.:**  
*Exciting and ionizing trapped highly charged ions with electrons and photons in an EBIT.*
- Han-sur-Lesse, Belgium, CUSPFEL (Chemistry with Ultra-Short Pulses and Free-Electron Lasers) WG1 meeting (12.05.-16.04.2010)  
**Rudenko, A.:**  
*Exploring few-photon, few-electron reactions with free-electron lasers: From ion yield and momentum measurements to time-resolved and kinematically complete experiments.*
- Heidelberg, Germany, 11<sup>th</sup> Symposium on Nuclei in the Cosmos (19.07.-23.07.2010)  
**Litvinov, Y.:**  
*Mass and Lifetime Measurements of Stored Exotic Nuclei.*
- Heidelberg, Germany, Max-Planck-Haus, H.E.S.S. miniworkshop, CTA session (02.02.2010)  
**Bosch-Ramon, V.:**  
*Studying variable gamma-ray sources with CTA.*
- Heidelberg, Germany, PROCOPE meeting on Rydberg physics (16.11.2010)  
**Evers, J.:**  
*Quantum optics theory at MPIK: An overview.*
- Heidelberg, Germany, TEXAS 2010 Symposium (06.12.-10.12.2010)  
**Schwetz-Mangold, T.:**  
*Theory of Dark Matter direct detection.*  
**Simgen, H.:**  
*Observation of neutrinos from sun and earth with the Borexino detector.*
- Heidelberg, Germany, TSR@ISOLDE Workshop (28.10.-29.10.2010)  
**Litvinov, Y.:**  
*Lifetime measurements of <sup>7</sup>Be using a storage ring at ISOLDE.*  
**Wolf, A.:**  
*The present experimental program at the TSR.*
- Heidelberg, Germany, Variable Galactic Gamma-Ray Sources (30.11.-03.12.2010)  
**Barkov, M.:**  
*Accretion/Blandford-Znajek processes and jet formation.*  
**Rieger, F.:**  
*Particle acceleration in the context of Gamma-ray binaries*
- Heronissos, Crete, Greece, Fullerene Silver Anniversary Symposium (04.10.-10.10.2010)  
**Krätschmer, W.:**  
*The Story of making Fullerenes I.*
- Hersonissos, Greece, CUSPFEL (Chemistry with Ultra-Short Pulses and Free-Electron Lasers) Workshop (20.10.22.10.2010)  
**Rudenko, A.:**  
*First experiments at LCLS: Correlated ion, electron and photon spectroscopy.*
- Höchst i.O., Germany, 2<sup>nd</sup> Joint QUASAR and THz-Groups Workshop on Accelerator Science and Technology (06.09.-09.09.2010)  
**Schmelling, M.:**  
*Disentanglement in Data Analysis.*
- Hong Kong, China, Workshop on Optics and New Materials II (30.04.-03.05.2010)  
**Xia, K.:**  
*Cooling of a Nanomechanical Resonator to its Ground State.*
- Houston, TX, USA, DAMOP meeting of the American Physical Society 2010 (03.01.-07.01.2010)  
**Pfeifer, T.:**  
*Attosecond spectral interferometry and quantum control of electron dynamics.*
- Karlsruhe, Germany, KATRIN-Meeting (06.10.2010)  
**Simgen, H.:**  
*Radon Background in Low Level Experiments.*
- Kazan, Russia, International Conference on Coherent and Nonlinear Optics / International Conference on Lasers, Applications and Technologies (ICONO/LAT) (23.08.-26.08.2010)

- Rudenko, A.:**  
*Atoms and molecules in intense free electron laser light: from EUV to X-ray domain.*
- Schröter, C. D.:**  
*Atomic and molecular fragmentation dynamics in intense FEL radiation.*
- Hatsagortsyan, K. Z.:**  
*Recollisions and Radiative Reaction in Strong Laser Pulses.*
- Ruf, M.:**  
*Nonperturbative electron-positron pair creation in strong laser fields.*
- Kiama, Australia, Cosmic Magnetism (06.06.-11.06.2010)
- Crocker, R. M.:**  
*A new lower limit on the magnetic field around the Galactic centre.*
- Kolkata, India, ICCIA 10 Conference (19.01.2010)
- Blaum, K.:**  
*High precision Penning Trap mass measurements – status and perspectives.*
- Kos, Greece, Conference: Spectroscopy of Molecular Ions in the Laboratory and in (Extraterrestrial) Space (05.10.2010)
- Petrignani, A.:**  
*High sensitivity spectroscopy of cold  $H_3^+$ ; visible transition frequencies and probabilities.*
- Krakow, Poland, Magnetic fields: Properties and Origins (24.05.2010)
- Jones, D.:**  
*A lower limit of 50 micro-Gauss for the Galactic centre magnetic field.*
- Kreuth, Germany, Schloss Ringberg, International Workshop on “Science with FELs – from first results to future perspectives” (14.03.-17.03.2010)
- Dorn, A.:**  
*A lithium target for experiments at Free Electron Lasers.*
- Rudenko, A.:**  
*X-ray pump, X-ray probe experiments: experience from FLASH and SCSS, perspectives for LCLS.*
- Crespo López-Urrutia, J.:**  
*Reenacting photoionization in astrophysical X-ray engines at LCLS.*
- Kreuth, Germany, Schloss Ringberg, The GeV to TeV Connection (11.01.-16.01.2010)
- Bosch-Ramon, V.:**  
*Constraints on the GeV-TeV emitter in gamma-ray binaries*
- Crocker, R. M.:**  
*Radio, GeV and TeV views of the Galactic centre*
- Kyoto, Japan, Kyoto University, The 39<sup>th</sup> Fullerenes-Nanotubes General Symposium (05.09.-07.09.2010)
- Krätschmer, W.:**  
*From Soot to Fullerenes – Recollections of a Discovery.*
- Lanzhou, China, 7<sup>th</sup> SPARC Workshop and Collaboration Meeting (24.08.-27.08.2010)
- Voitkiv, A.:**  
*Some field-assisted and field-induced collision processes.*
- Fischer, D.:**  
*Dynamics in ion-impact induced ionization.*
- Litvinov, Y.:**  
*Nuclear Physics Experiments with Highly-Charged Ions.*
- Liverpool, UK, Learning and Teaching Conference (23.06.2010)
- Welsch, C. P.:**  
*Postgraduate training through international networking.*
- London, UK, IOP High Energy Particle Physics and Astro-Particle Physics Meeting (29.03.2010)
- Hofmann, W.:**  
*Cosmic Particle Accelerators.*
- London, United Kingdom, Workshop on Advances in Strong Field and Attosecond Physics (23.06.-25.06.2010)
- Ullrich, J.:**  
*Atomic and molecular dynamics in the light of next generation sources.*
- Lund, Sweden, First meeting of the ATTOFEL network (27.05.-28.05.2010)
- Jiang, Y.:**  
*XUV pump-probe measurements with atoms and molecules at FLASH and SCSS.*
- Ott, C.:**  
*Project InterAtto MPIK Heidelberg - Design and First Result.*
- Madrid, Spain, Instituto de Física Teórica UAM/CSIC, XVI IFT-UAM/CSIC Christmas Workshop (15.12.-17.12.2010)
- Lindner, M.:**  
*Neutrinos as Probes of new Physics.*
- Magnetic Island, Australia, 12<sup>th</sup> International Workshop on Slow Positron Beam Techniques (SLOPOS 12) (01.08.-06.08.2010)
- Dorn, A.:**  
*Kinematically complete experiments on positron impact ionization of helium.*
- Menlo Park, CA, USA, 2010 LCLS / SSRL Annual Users’ Meeting & Workshops (17.10.-21.10.2010)
- Epp, S. W.:**  
*pnCCD detectors for imaging.*
- Crespo López-Urrutia, J.:**  
*Electron Beam Ion Trap end station.*
- Menlo Park, CA, USA, Ultrafast Vacuum Ultraviolet and X-ray Physics Workshop (19.07.-21.07.2010)
- Rudenko, A.:**  
*Atomic and molecular fragmentation by intense FEL light: from VUV to X-ray domain.*
- Menlo Park, California, USA, SLAC Summer Institute (03.08.-14.08.2009)
- Egberts, K.:**  
*Results from H.E.S.S.*
- Meudon, Paris, Workshop on acceleration and emission processes in AGN (25.01.2010)
- Rieger, F.:**  
*Particle acceleration in Centaurus A.*
- Montpellier, France Identification of Dark Matter (IDM2010) (26.07.-30.07.2010)
- Bezrukov, F.:**  
*keV sterile neutrino Dark Matter in gauge extensions of the Standard Model.*
- Schwetz-Mangold, T.:**  
*DM direct detection data and speculations on the low-mass WIMP region.*
- Montreal, Canada, Strong and Electroweak Matter 2010 (29.06.-01.07.2010)
- Hohenegger, A.:**  
*Finite Density Aspects of Leptogenesis.*
- Moscow, Russia, EMMI Workshop: Plasma Physics with Intense Laser and Heavy Ion Beams (20.05.-21.05.2010)
- Harman, Z.:**  
*Quantum dynamics in strong laser fields: acceleration, ionization and pair creation processes.*

- Moscow, Russia, HEA-2010: High Energy Astrophysics (21.12.-24.12.2010)  
**Aharonian, F. A.:**  
*Overview of recent observations of very high energy gamma-rays.*
- Moscow, Russia, ITEP International Winter School (13.02.-20.02.2010)  
**Lindner, M.:**  
*4 lectures on Neutrino Physics.*
- Mumbai, India, 12<sup>th</sup> International Workshop on Neutrino Factories, Superbeams and Bet beams (NuFact 10) (20.10.-25.10.2010)  
**Rodejohann, W.:**  
*Gauged  $L(\mu)$ - $L(\tau)$  and different muon neutrino and anti-neutrino oscillations: MINOS and beyond.*  
**Schwetz-Mangold, T.:**  
*LSND and MiniBooNE within (3+1) Plus NSI; Summary talk of the Oscillation Physics working group.*
- Natal, Brazil, Workshop "Ultracold quantum gases beyond equilibrium" (27.09.-01.10.2010)  
**Jochim, S.:**  
*Few-body physics with an ultracold Fermi gas.*
- Nizhny Novgorod, Russia, IV International Conference on Frontiers of Nonlinear Physics (13.07.-20.07.2010)  
**Keitel, C. H.:**  
*High-energy physics with extremely intense laser pulses.*  
**Zubairy, M. S.:**  
*Beyond the Rayleigh limit in optical lithography and microscopy.*
- Obergurgl, Austria, XVIIth Symposium on Atomic, Cluster and Surface Physics (SASP) (24.01.-29.01.2010)  
**Ullrich, J.:**  
*Brilliant FEL light: new frontiers in AMO research.*
- Orsay, France, Colloque commun de la division PAMO et Journées de Spectroscopie Moléculaire 2010 (29.06.-02.07.2010)  
**Wolf, A.:**  
*Dissociation X-UV des molécules protonées aux sources "FEL".*
- Padua, Italy, 4<sup>th</sup> International Workshop on thin films and new ideas to push the limits of RF superconductivity (03.10.-06.10.2010)  
**Junginger, T.:**  
*Intrinsic limitations of niobium under RF.*
- Paris, France, 1<sup>st</sup> Summer School on Multiwavelength Astronomy (29.06.-10.07.2009)  
**Hermann, G.:**  
*Ground-based gamma-ray astronomy.*
- Paris, France, TeV Particle Astrophysics 2010 (19.07.-23.07.2010).  
**Crocker, R. M.:**  
*Radio and gamma-ray constraints on dark matter annihilation in the Galactic centre.*  
**Casanova, S.:**  
*The TeV diffuse emission.*  
**Colnard, C.:**  
*Status of IceCube-DeepCore: Sensitivity study for the Southern Hemisphere.*  
**Odrowski, S.:**  
*Neutrino point sources: Search strategies and results from IceCube.*
- Pasadena, USA, Californian Institute of Technology, 8<sup>th</sup> International Conference on High Energy Density Astrophysics (15.03.2010)  
**Kirk, J. G.:**  
*Radiative Signatures of First-Order Fermi Acceleration at Relativistic Shocks.*
- Porto Conte, Italy, 5<sup>th</sup> ITS LEIF Annual Meeting (10.05.-14.05.2010)  
**Ullrich, J.:**  
*Physics with free-electron lasers.*
- Prague, Czech Republic, ELI - Beamlines Scientific Challenges Workshop (26.04.-27.04.2010)  
**Keitel, C. H.:**  
*High-energy QED in lasers.*
- Pralognan, France, 3<sup>rd</sup> ITS LEIF Winter School: Complex Systems and Ion Optical Tools (08.03.-11.03.2010)  
**Buhr, H.:**  
*Hot water in space.*  
**Novotný, O.:**  
*Dissociative recombination of molecular ions in storage rings.*
- Protvino, Russia, XXII Russian Particle Accelerator Conference (27.09.-01.10.2010)  
**Papash, A. I.:**  
*Electrostatic storage rings at the ultra-low energies range.*
- Qufu, Shandong, China, 2<sup>nd</sup> International Workshop on Entanglement and Quantum Control (07.06.-10.06.2010)  
**Evers, J.:**  
*X-ray single photon entanglement via coherent control of nuclei.*
- Reykjavik, Iceland, PARA 2010: State of the Art in Scientific and Parallel Computing (06.06.-09.06.2010)  
**Schmelling, M.:**  
*RAVEN - Boosting Data Analysis for the LHC Experiments.*
- Riezlern, Austria, 31. Arbeitstagung „Energierreiche atomare Stöße“ (01.02.-04.02.2010)  
**Kremer, M.:**  
*Electron localization in the fragmentation of hydrogen molecules with CEP stabilized laser pulses.*  
**Ullrich, J.:**  
*Atoms and molecules in intense ultra-short FEL pulses.*
- Riezlern, Austria, Workshop of Accelerator and Plasma Physics (07.03.-13.03.2010)  
**von Hahn, R.:**  
*Status of the CSR.*
- Rome, Italy, International Conference "Dynamics of Systems on the Nanoscale" (DySoN 2010) (16.11.-19.11.2010)  
**Ullrich, J.:**  
*Free Electron Lasers: Dynamics and structure towards femtosecond time and nanometer spatial resolution.*
- Rutherford, England, 6<sup>th</sup> IDS Plenary Meeting (22.09.-25.09.2010)  
**Rodejohann, W.:**  
*Gauged  $L(\mu)$ - $L(\tau)$  and different muon neutrino and anti-neutrino oscillations: MINOS and beyond.*
- Saariselkä, Finland, 5<sup>th</sup> Conference on trapped charged particles and fundamental interactions, TCP2010 (12.04.-16.04.2010)  
**Crespo López-Urrutia, J.:**  
*Photoionization of trapped ions at synchrotrons and free-electron X-ray lasers.*  
**Nagy, S.:**  
*Towards high-precision mass measurements of neutron-rich fission products at TRIGA-TRAP.*  
**Wolf, A.:**  
*Molecular Physics at Ion Storage Rings.*

- Saariselkä, Finland, Trapped Charged Particles Workshop (TCP) (02.05.-06.05.2010)  
**Siggel-King, M. R. F.:**  
*Electrostatic low-energy antiproton recycling ring.*
- Salamanca, Spain, 10<sup>th</sup> European Conference on Atoms, Molecules and Photons (ECAMP10) (04.07.-09.07.2010)  
**Jochim, S.:**  
*Experiments with ultracold fermions.*  
**Ullrich, J.:**  
*Brilliant FEL light: new frontiers in atomic and molecular physics.*  
**Crespo López-Urrutia, J.:**  
*Photoionizing highly charged ions up to Fe<sup>15+</sup> with X rays: Resonance scattering.*
- Salamanca, Spain, 21<sup>st</sup> European Conference on Few-Body Problems in Physics (29.08.-03.09.2010)  
**Jochim, S.:**  
*Few-body physics with an ultracold Fermi gas.*
- Santa Barbara, CA, USA, Conference on X-ray Science in the 21<sup>st</sup> Century (02.08.-06.08.2010)  
**Ullrich, J.:**  
*Time-resolved experiments with FELs: Towards the molecular movie?*
- Santa Fe, USA, Beam Instrumentation Workshop (BIW) (02.05.-06.05.2010)  
**Welsch, C. P.:**  
*DITANET: Contributing to state-of-the-art diagnostics development.*
- Santiago de Compostela, Spain, 17<sup>th</sup> Euroschool on Exotic Beams 2010 (September 2010)  
**Litvinov, Y.:**  
*Nuclear Physics Experiments in Storage Rings.*
- Sardinia, Italy, Pulsar conference (10.10.-15.10.2010)  
**de Ona Wilhelmi, E.:**  
*Pulsar Wind Nebula in the GeV-TeV energy regime.*
- Schleching, Germany, XLI. Arbeitstreffen Kernphysik (18.02.-25.02.2010)  
**Blaum, K.:**  
*A New Route Towards Fundamental Tests with Anti-Hydrogen,*  
**Jochim, S.:**  
*Experiments with ultracold fermions.*
- Sendai, Japan, International Conference on Many Particle Spectroscopy of Atoms, Molecules and Clusters (MPS2010) (04.09.-07.09.2010)  
**Moshhammer, R.:**  
*XUV pump-probe experiments at Free Electron Lasers.*  
**Fischer, D.:**  
*Dynamics in ion-impact induced double ionization of atoms.*  
**Ren, X.:**  
*High resolution electron momentum spectroscopy (EMS) of molecules.*
- Shanghai, China, 15<sup>th</sup> International Conference on the Physics of Highly Charged Ions (HCI 2010) (30.08.-03.09.2010)  
**Crespo López-Urrutia, J.:**  
*Resonance scattering and photoionization in Fe<sup>14+,15+</sup> ions at 800 eV photon energy.*  
**Litvinov, Y.:**  
*At the Borderline Between Atomic and Nuclear Physics: Two-Body Nuclear Decay of Highly-Charged Ions.*  
**Wolf, A.:**  
*Physics with stored highly charged ion beams.*
- Shanghai, China, The 8<sup>th</sup> CCAST Workshop on Strong Field Laser Physics (25.10.-29.10.2010)  
**Jiang, Y.:**  
*Progress on atomic and molecular physics with strong lasers in Heidelberg.*
- Snowbird, Utah, USA, 40<sup>th</sup> Winter Colloquium on the Physics of Quantum Electronics (PQE) (03.01.-08.01.2010)  
**Pfeifer, T.:**  
*Measurement and CEP control of isolated attosecond pulse contrast.*  
**Evers, J.:**  
*Yoctosecond light pulses from quark gluon plasmas.*  
**Pálffy, A.:**  
*X-ray single-photon entanglement via coherent control of nuclei.*
- Snowmass Village, CO, USA, 17<sup>th</sup> International Conference on Ultrafast Phenomena 2010 (19.07.-23.07.2010)  
**Fischer, B.:**  
*Manipulating the dissociation of H<sub>2</sub> (D<sub>2</sub>) by phase stable laser pulses.*
- Speyer, Germany, EMMI Workshop: Particle dynamics under extreme matter conditions (26.09.-29.09.2010)  
**Rudenko, A.:**  
*Few-particle reactions in intense FEL light: first experiments in the X-ray domain*  
**Di Piazza, A.:**  
*Testing strong-field CED and QED with intense laser fields.*  
**Harman, Z.:**  
*Acceleration of charged particles by intense laser fields.*  
**Müller, C.:**  
*High-energy collision processes involving intense laser fields.*
- Split, Croatia, GoranFest (09.06.-11.06.2010)  
**Schwetz-Mangold, T.:**  
*Dark Matter and news from direct detection data.*
- St. Petersburg, Russia, International Conference on Nuclear Physics "Nucleus 2010. Methods of Nuclear Physics for Femto- and Nanotechnologies" (LX Meeting on Nuclear Spectroscopy and Nuclear Structure) St. Petersburg State University, Petergof (06.07.-09.07.2010)  
**Litvinov, Y.:**  
*Recent Results from Experiments at the ESR.*
- Starnberger See, Andrzejfest (07.10.-09.10.2010)  
**Lindner, M.:**  
*Neutrinos and Dark Matter.*
- Stockholm, Sweden, International Symposium on Electron Beam Ion Sources and Traps (EBIST2010) (07.04.-10.04.2010)  
**Bernitt, S.:**  
*Solar wind interacting with comets: X-ray emission following charge exchange.*  
**Crespo López-Urrutia, J.:**  
*Photoionization of trapped ions at synchrotrons and free electron X-ray lasers. (plenary talk)*  
**Mäckel, V.:**  
*Laser spectroscopy of highly charged argon at the Heidelberg electron beam ion trap.*  
**Ginzel, R.:**  
*Solar wind interacting with comets: X-ray emission following charge exchange.*  
**Beilmann, C.:**  
*First and higher order electronic recombination studies at high resolution in cooled highly charged ions.*
- Strasbourg, France, EUROnu meeting (02.06.-04.06.2010)  
**Schwetz-Mangold, T.:**  
*Status of theta13 and perspectives.*

- Sudbury, Canada, Topical Workshop in Low Radioactivity Techniques (28.08.-29.08.2010)  
**Lindemann, S.:**  
*Behaviour of  $^{222}\text{Rn}$  at cryogenic temperatures.*  
**Simgen, H.:**  
*Low background aspects of GERDA.*  
**Weber, M.:**  
*Background studies in Xenon100 dark matter experiment.*
- Sydney, Australia, Conference on Solid State Dosimetry (SSD16) (19.09.-24.09.2010)  
**Holzscheiter, M. H.:**  
*Using monolithic active pixel sensors for fast monitoring of therapeutic hadron beams.*
- Taiyuan, China, 5<sup>th</sup> Asia-Pacific Conference on Quantum Information Science (21.08.-24.08.2010)  
**Evers, J.:**  
*Cooling of a nanomechanical resonator coupled to flux qubits.*
- Tilton, New Hampshire, USA, The 2010 Gordon Research Conference on Multiphoton Processes (06.06.-11.06.2010)  
**King, B.:**  
*A matterless double-slit. (hot topic)*  
**Moshhammer, R.:**  
*Break-up of atoms and molecules in intense FEL radiation.*
- Tokyo, Japan, Exploring Supernova Remnants and Pulsar Wind Nebulae in X-rays: before and after ASTRO-H (18.02.-19.02.2010)  
**Casanova, S.:**  
*Particle escape from SNR.*
- Tokyo, Japan, Mini-Workshop on Neutrinos (08.11.-11.11.2010)  
**Rodejohann, W.:**  
*Neutrino Models.*
- Torino, Italy, Conference on Flavour Physics and CP violation (FPCP) (25.05.-29.05.2010)  
**Schwetz-Mangold, T.:**  
*Neutrino Physics: a theoretical review.*
- Torino, Italy, Euro Science Open Forum (ESOF) (02.07.-07.07.2010)  
**Welsch, C. P.:**  
*Ions, light and antimatter: Various roads into the quantum world.*
- Torino, Italy, IV International Workshop on the Interconnection between Particle Physics and Cosmology (12.07.-16.07.2010)  
**Lindner, M.:**  
*keV sterile neutrino Dark Matter in extensions of the Standard Model.*
- Trento, Italy, ECT workshop on "Searches for CP-and T-Violation in Atoms and Nuclei" (15.11.-19.11.2010)  
**Blaum, K.:**  
*Studying nuclear properties with trapped isotopes.*
- Trieste Italy, Scineghe 2010, Gamma-ray Astrophysics in the Multimessenger context (08.09.-10.09.2010)  
**Aharonian, F.A.:**  
*On the origin of very hard spectra of TeV blazars.*  
**Volpe, F.:**  
*The gamma-ray sky seen with H.E.S.S.*
- Trieste, Italy, Gribov-80 Memorial Workshop on Quantum Chromodynamics and Beyond (26.05.-28.05.2010)  
**Akhmedov, E.:**  
*Neutrino Oscillations in Quantum Mechanics and Quantum Field Theory.*
- Trieste, Italy, International workshop on the soft X-ray science and instrumentation at the European XFEL (16.12.-17.12.2010)  
**Wolf, A.:**  
*Results of Soft X-Ray Studies with Atomic and Molecular Ion Targets at Free Electron Lasers.*  
**Crespo López-Urrutia, J.:**  
*Status of the ion trap experiments Aarhus-Heidelberg.*
- Turunç-Marmaris, Turkey, Frontier Topics in Bose-Einstein Condensation in Atoms & Semiconductors (11.09.-19.09.2010)  
**Jochim, S.:**  
*Experiments with ultracold atoms.*
- Ulm, Germany, Workshop on Quantum Coherence, University of Ulm (11.02.2010)  
**Keitel, C. H.:**  
*Quantum optics at high fields.*
- Uppsala, Sweden, Symposium on Trends in Experimental Physics: Multi-Particle Coincidence Spectroscopy of Atoms and Molecules (28.05.2010)  
**Moshhammer, R.:**  
*Atomic physics experiments at the free electron laser FLASH.*
- Utrecht, Netherlands, Conference on High-resolution X-ray spectroscopy: past, present, and future (15.03.-17.03.2010)  
**Crespo López-Urrutia, J.:**  
*Photoionization measurements of Ar and Fe highly charged ions in the keV regime.*
- Valencia, Spain, 16th International Symposium on Particles Strings and Cosmology (19.07.-23.07.2010)  
**Hohenegger, A.:**  
*Finite Density Aspects of Leptogenesis.*
- Vancouver, Canada, 37<sup>th</sup> International Conference on Vacuum Ultra-Violet and X-ray Physics (VUVX) (11.07.-16.07.2010)  
**Jiang, Y.:**  
*Two-photon double ionization of  $\text{D}_2$  by XUV pump-probe experiments at FLASH.*
- Vancouver, Canada, International Nuclear Physics Conference, INPC2010 (04.07.-09.07.2010)  
**Blaum, K.:**  
*Precision measurement of ground-state properties for nuclear structure studies.*  
**Nagy, S.:**  
*TRIGA-TRAP: The first Penning trap mass spectrometer at a research reactor.*
- Veldhoven, The Netherlands, Physics at FOM (18.01.-19.01.2010)  
**Jochim, S.:**  
*Efimov physics in a three-component Fermi gas.*
- Würzburg, Residenz, Workshop The High Energy Universe (15.10.-16.10.2010)  
**Lindner, M.:**  
*Neutrinos and dark matter as probes of new physics.*
- Zeuthen, DESY, Astroteilchenphysik in Deutschland: Status und Perspektiven (25.02.-26.02.2010)  
**Lindner, M.:**  
*Neutrino Physik Überblick (LAUNCH).*  
**Schönert, S.:**  
*Neue Germanium Experimente zur Suche nach dem neutrinoselbstlosen Doppelbetazerfall: GERDA und Majorana.*
- Zürich, Switzerland, Dark Matter in the Sky and Underground workshop (22.09.-24.09.2010)

**Schwetz-Mangold, T.:**  
*Direct Detection: Where do we stand?*

Zürich, Switzerland, DARWIN-Meeting (14.09.-15.09.2010)

**Lindner, M.:**  
*WIMPs, GIMPs and other Dark Matter.*

**Simgen, H.:**  
*Work package 7 overview: Material screening and background modeling.*

## At Other Institutes

**Aharonian, F. A.:**  
*Nature's Extreme Particle Accelerators.*  
Dublin, Ireland, Colloquium at the University College Dublin (27.05.2010)

*Exploring Particle Accelerators in the Universe.*  
Stockholm, Sweden, public lecture at the Oskar Klein Centre, University of Stockholm (18.10.2010)

**Akhmedov, E.:**  
*New MiniBooNE Results and Non-Standard Neutrino Interactions.*  
Trieste, Italy, The Abdus Salam International Centre for Theoretical Physics (05.10.2010)  
*Paradoxes of Neutrino Oscillations.*  
Paris, France, APC Colloquium (02.03.2010)  
*Moessbauer Effect with Neutrinos and Neutrino Oscillations.*  
Warsaw, Poland, University of Warsaw (12.01.2010)

**Barkov, M.:**  
*Close Binary Progenitors of Long Gamma Ray Bursts.*  
Moscow, Russia, Space Research Institute RAS, (04.02.2010) and  
Moscow, Russia, Lebedev Physical Institute of the RAS (10.02.2010)  
*Accretion to BH and jet formation (magnetically driven collapsar model).*  
Merate, Italy, Milano Brera Observatorio (26.10.2010)

**Berg, M.:**  
*High sensitivity benchmark spectroscopy of  $H_3^+$*   
Seminar Laborastrophysik, I. Physikalisches Institut, Universität Köln, Germany (02.11.2010)

**Blaum, K.:**  
*Atome auf die Waage gelegt – Gewichtsprobleme physikalischer Art.*  
Ruprecht-Karls-Universität Heidelberg, Pizza-Night Wintersemester 2009/2010, Heidelberg, Germany (25.01.2010)  
*Geladene in Haft - Präzisionsexperimente mit gespeicherten Ionen.*  
Physikalisches Kolloquium, Universität Mainz, Germany (04.05.2010) and  
PTB Braunschweig, Germany (26.10.2010)  
*Precision Penning trap experiments with stored and cooled exotic ions.*  
University of Berkeley, USA (27.09.2010) and  
Texas University at Austin, USA (29.09.2010) and  
Physics Division Colloquium, Argonne National Laboratory, USA, (01.10.2010) and  
Amos de Skalit Colloquium, Weizmann Institute, Rehovot, Israel (25.11.2010)

**Bosch Ramon, V.:**  
*The physics behind the non-thermal emission in gamma-ray binaries.*  
Rome, Italy, Physics Department, Rome University "La Sapienza" (17.03.2010)  
*The spectral energy distribution of gamma-ray binaries, Steady Jets and Transient Jets.*

Bonn, Germany, Max-Planck-Institut für Radioastronomie (08.04.2010)

**Buth, C.:**  
*Atomic and molecular strong-field physics at ultrafast x-ray sources.*  
Argonne, Illinois, USA, Argonne National Laboratory, X-ray Science Division Seminar (30.06.2010) and  
Atlanta, Georgia, USA, Georgia Institute of Technology, Physics Colloquium (05.05.2010)

**Cakirli, R.B.:**  
**Approaches to Understanding Nuclear Structure: Masses, radii, and spectroscopic observables.**  
Technische Universität Darmstadt, Germany (22.06.2010)  
*Correlations of Experimental Isotope Shifts With Spectroscopic and Mass Observables.*  
CERN-ISOLDE, Geneva, Switzerland (17.06.2010)  
*Approaches to Understanding Nuclear Structure Using Simple Observables.*  
GSI, Darmstadt, Germany (28.04.2010) and  
Technische Universität München, Germany (03.05.2010)

**Crespo López-Urrutia, J.:**  
*A Paul trap for ultrahigh precision laser spectroscopy.*  
Braunschweig, Germany, Physikal. Techn. Bundesanstalt (06.12.2010)

**Crocker, R. M.:**  
*A new lower limit on the magnetic field around the Galactic centre.*  
Adelaide, Australia, University of Adelaide colloquium (01.03.2010)

**de Ona Wilhelmi, E.:**  
*H.E.S.S. Observations on Massive Star Clusters - West-erlund 1 & 2.*  
Barcelona, Spain, IEEC-ICE (22.04.2010)

**Di Piazza, A.:**  
*Classical and quantum electrodynamic effects in intense laser fields.*  
Darmstadt, Germany, GSI Helmholtzzentrum für Schwerionenforschung GmbH (30.11.2010)

**Eliseev, S.:**  
*PENTATRAP: A precision Penning trap mass spectrometer for highly-charged ions.*  
St. Petersburg State University, St.Petersburg, Russia (04.10.2010); PNPI, Gatchina, Russia (05.10.2010).

**Evers, J.:**  
*Coherent control of cooperative light scattering.*  
Texas, USA, Texas A&M University, College Station (05.10.2010)  
*X-ray and gamma-ray quantum optics.*  
Xian, China, Jiaotong University (31.08.2010) and  
Beijing, China, Computational Science Research Center (18.08.2010)  
*Erzeugung kürzester Lichtblitze in Hochenergiekollisionen.*  
Heidelberg, Germany, Heidelberg Academy of Sciences and Humanities, Dulger award lecture (04.06.2010)  
*X-ray single photon entanglement via coherent control of collective nuclear dynamics.*  
Dresden, Germany, MPI for the physics of complex systems, (26.02.2010)  
*X-ray single photon entanglement via coherent control of nuclei.*  
Hamburg, Germany, Colloquium of the Graduiertenkolleg on the physics with novel coherent light sources (16.02.2010)

- Feuerstein, B.:**  
*Extreme Flashlights on Atoms and Molecules.*  
 Manhattan (KS), USA, Colloquium, Department of Physics, Kansas State University (03.05.2010)  
*Electron localization in  $H_2^+$  by nuclear wave packet control.*  
 Manhattan (KS), USA, AMO Seminar, Department of Physics, Kansas State University (05.05.2010)
- Froese, M.:**  
*Decaying excited anions and their dependence on blackbody radiation in the CTF.*  
 IMPRS-QD Symposium, MPIK Heidelberg, Germany (14.10.10)
- Galow, B.:**  
*Theoretical simulations to acceleration of ions by intense laser fields.*  
 Heidelberg, Germany, University of Heidelberg, Physikalisches Institut, Seminar on atomic physics in strong electromagnetic fields (25.11.2010)
- Grieser, M.:**  
*Recent developments at the storage rings TSR and CSR.*  
 University of Kyoto, Japan (03.06.2010)
- Harman, Z.:**  
*High quality intense ion beams accelerated by strong laser fields.*  
 Giessen, Germany, Justus Liebig University Giessen, seminar on atom physics (09.12.2010)  
*Theoretical simulations to acceleration of ions by intense laser fields.*  
 Darmstadt, Germany, GSI Helmholtzzentrum für Schwerionenforschung GmbH, Plasma Physics Seminar (02.11.2010)
- Hatsagortsyan, K. Z.:**  
*High-order harmonic generation in relativistic domain and other effects in strong laser fields.*  
 Yerevan, Armenia, Yerevan State University, Seminar of the Theory Department (24.11.2010)  
*Strong field physics: history and new prospects.*  
 Yerevan, Armenia, Yerevan State University, Colloquium of the Optics Department (25.11.2010)
- Heusser G.:**  
*Low radioactivity background techniques.*  
 Assergi, LNGS, International student workshop on neutrinoless double beta decay (11.-13.11.2010)  
*Sources of background and their suppression illustrated by experiments on neutrino properties at LNGS.*  
 Assergi, LNGS, LNGS seminar (25.05.2010)  
*The art of low background physics.*  
 Dresden, Institut fuer Kern- und Teilchenphysik Uni Dresden, institute seminar (15.04.2010)
- Hofmann, W.:**  
*Cosmic Particle Accelerators.*  
 Potsdam, Germany, Kolloquium (28.04.2010) and Darmstadt, Germany, GSI, Kolloquium (13.07.2010)
- Jiang, Y.:**  
*Overview of FEL studies in Heidelberg.*  
 Freiburg, Germany, Seminar at Physics Department, Universität Freiburg (10.05.2010)
- Jochim, S.:**  
*Few-body physics with ultracold atoms.*  
 Cambridge, USA, Harvard Atomic Physics Colloquium, Harvard University (09.02.2010)  
*Few-body physics with an ultracold Fermi gas.*  
 Kaiserslautern, Germany, SFB Seminar, Universität (20.05.2010)  
*Ultrakalte Fermigase: stark verdünnt und doch stark korreliert.*  
 Heidelberg, Physikalisches Kolloquium, Universität (27.05.2010)  
*Deterministic preparation and control of a few fermion system.*  
 Ulm, Germany, SFB Kolloquium Stuttgart-Ulm, Universität (22.10.2010) and Wien, Seminar Gruppe Schmiedmayer, Atominstitut der österreichischen Universitäten (26.11.2010)
- Jones, D.:**  
*A lower limit of 50 micro-Gauss for the Galactic centre magnetic field amplitude.*  
 Berkely, USA, The University of California, Berkely, (21.06.2010)
- Keitel, C. H.:**  
*High-energy quantum dynamics in extremely intense laser pulses.*  
 Darmstadt, Germany, TU Darmstadt, Physikalisches Kolloquium (12.11.2010)  
*Exotic Physics with a 10 petawatt laser.*  
 Palaiseau, France, ENSTA-PALAISEAU, invited talk on the occasion of the visit of the Apollon advisory board (26.10.2010)  
*Super-strong laser-matter interaction: History and current frontiers.*  
 Bielefeld, Germany, University of Bielefeld, celebratory colloquium on the occasion of Prof. Farhad Faisal's retirement (01.02.2010)
- King, B.:**  
*Illuminating the quantum vacuum using intense lasers.*  
 Jena, Germany, Friedrich Schiller University of Jena, Institute of Theoretical Physics (09.11.2010)
- Kirk, J. G.:**  
*Prolific Pair Production in Laser Beams.*  
 Abingdon, UK, Rutherford-Appleton Laboratory (09.02.2010)  
*Charge-starved Relativistic Jets and Blazar Variability.*  
 Oxford, UK, Clarendon Laboratory, University of Oxford (14.11.2010)  
*Prolific Pair Production with Intense Laser Beams.*  
 München, Germany, Ludwig-Maximilians Universität (29.11.2010)  
*The Extremely Rapid Variability of High-Energy Emission from Blazars.*  
 Perth, Australia, International Centre for Radio Astronomy Research, University of Western Australia (07.12.2010)
- Knöpfle, K.T.:**  
*What about GERDA.*  
 Assergi, Italy, Laboratori Nazionali del Gran Sasso (03.03.2010)  
*Construction of GERDA.*  
 Assergi, Italy, Laboratori Nazionali del Gran Sasso (09.11.2010)  
*Commissioning of the GERDA experiment and perspectives.*  
 Heidelberg, Germany, Universität Heidelberg, Physikalisches Institut (23.11.2010)
- Krätschmer, W.:**  
*From Soot to Fullerenes – Recollections of a Discovery.*  
 Tsukuba, Japan, Tsukuba Advanced Research Alliance Institute (02.09.2010)  
*Spectroscopy of Carbon Chain Molecules in Cryogenic Matrices.*  
 Nagoya, Japan, Department of Chemistry, Nagoya University (09.09.2010)

- Kreim, S.:**  
*ISOLTRAP – recent upgrades and results.*  
NSCL, Michigan State University, East Lansing, USA  
(02.07.2010)
- Kreim, S.:**  
*The ISOLDE facility.*  
Student visit from Germany, CERN, Geneva, Switzerland  
(16.04.2010/26.07.2010)  
*Meeting the challenges for more exotic nuclei at the mass spectrometer ISOLTRAP.*  
Eberhard Karls-Universität, Tübingen (26.10.2010) and  
Institut für Kernchemie, Johannes Gutenberg-Universität,  
Mainz, Germany (22.11.2010)
- Kremer, M.:**  
*Quantendynamik mit Femto- und Attosekunden Lichtpulsen.*  
Gießen, Germany, Fachhochschule Gießen-Friedberg  
(19.11.2010)  
*Manipulating molecular fragmentation with phase-stabilized laser pulses.*  
Heidelberg, Germany, Kaffeepalaver, Max-Planck-Institut  
für Kernphysik (21.01.2010)
- Lange, M.:**  
*Experiments at the cryogenic ion beam trap CTF: From beam dynamics to cluster decay.*  
Atomphysik-Seminar GSI, Darmstadt (27.10.2010)
- Lindner, M.:**  
*Neutrinos as Probes of new Physics.*  
Mainz, Germany, Universitäts-Kolloquium (30.11.2010)
- Litvinov, Y.:**  
*Two-Body Beta Decay of Highly-CHarged Ions.*  
CNRP Seminar, University of Surrey, Guildford, UK  
(02.02.2010)  
*Trapped Ions for Nuclear Physics and Astrophysics.*  
Beihang University, Beijing, China (08.06.2010)  
*Nuclear Physics in Storage Rings.*  
Institute of Theoretical Physics, Chinese Academy of  
Sciences, Beijing, China (10.06.2010)  
*Recent Results from Experiments at the ESR I.*  
IMP, Lanzhou, China (17.06.2010)  
*Recent Results from Experiments at the ESR II.*  
IMP, Lanzhou, China, (22.06.2010)  
*At the Borderline Between Atomic and Nuclear Physics:  
Two-Body Nuclear Decay of Highly- Charged Ions.*  
RI Physics Seminar, RIKEN, Wako-shi, Tokyo, Japan,  
(27.09.2010).  
*Beta-decay of highly-charged ions.*  
Seminar on “Aktuelle Probleme der Beschleuniger- und  
angewandten Schwerionenphysik”, Institut für Ange-  
wandte Physik, J.W. Goethe-Universität, Frankfurt,  
Germany (12.11.2010)  
*Nuclear decay of highly-charged ions.*  
Seminar on “Atom- und Molekülphysik” Institut für  
Kernphysik, J.W. Goethe-Universität, Frankfurt, Germany  
(12.11.2010)
- Mokler, P.:**  
*Resonante elektronische Rekombination höherer  
Ordnung.*  
Gießen, Germany, Seminar über Atomphysik, Universität  
(04.11.2010)
- Moshhammer, R.:**  
*Atoms and molecules in strong fields at IR and XUV  
wavelengths.*  
London, England, Laser Seminar at Imperial College  
(15.09.2010)
- Müller, C.:**  
*Lepton pair creation in intense laser fields.*  
Warsaw, Poland, Institute of Theoretical Physics, conversa-  
torium, University of Warsaw (07.10.2010)  
*High-energy processes in very strong laser fields.*  
Warsaw, Poland, University of Warsaw, Seminar of the  
Nonlinear Optics Division, (07.10.2010)  
*Theoretische Quantendynamik in intensiven Laserfel-  
dern.*  
Heidelberg, Germany, University of Heidelberg, PIZZA  
Night (10.05.2010)
- Nagy, S.:**  
*TRIGA-TRAP: The first Penning trap mass spectrometer  
at a research reactor.*  
Institut für Kernchemie, Universität Mainz, Germany  
(28.06.2010)
- Pálffy, A.:**  
*Excitons, polaritons and quantum optics with nuclei.*  
Rostock, Germany, Institut für Physik, Seminar der AG  
Quantentheorie und Vielteilchensysteme (08.06.2010)  
*Coupling nuclei to intense photon fields.*  
Hamburg, Germany, DESY research centre, HASYLAB  
seminar (11.06.2010)
- Papash, A. I.:**  
*Beam dynamics in the Electrostatic Storage Ring USR for  
ultra-low energies antiprotons.*  
Darmstadt, Germany, GSI Beam Dynamics Seminar  
(18.03.2010)
- Pfeifer, T.:**  
*Spectroscopy and laser control of electron motion:  
Classical and quantum dynamics on attosecond times-  
cales.*  
AMQ Seminar, Universität Heidelberg (20.01.2010)
- Postavaru, O.:**  
*Spectral control of x-ray resonance fluorescence of highly  
charged ions.*  
Heidelberg, Germany, University of Heidelberg, Physi-  
kalisches Institut, Seminar on atomic physics in strong  
electromagnetic fields (11.11.2010)
- Rodejohann, W.:**  
*Neutrinos als Proben für Physik jenseits des Standard  
Models.*  
Seminar at Westfaelische Wilhelms-Universität Münster  
(13.06.2010)
- Schnell, M.:**  
*Cold controlled molecules and their dynamics.*  
Bothe-Kolloquium, Max-Planck-Institut für Kernphysik  
Heidelberg (13.10.2010)  
*Dynamics of cold and controlled molecules.*  
Doktoratskolleg, Universität Wien (29.11.2010)
- Schwalm, D.:**  
*Bewegung hält auch Atome jung – ein Präzisionsexperi-  
ment zur Zeitdilatation.*  
LMU München, Germany (28.10.2010)
- Schwetz-Mangold, T.:**  
*Recent results from Dark Matter direct detection experi-  
ments and their interpretation.*  
Würzburg, Germany, Astroparticle seminar (18.11.2010)  
and  
Trieste, Italy, joint ICTP/SISSA seminar (02.11.2010)  
*Dark Matter direct detection and speculations on  
low-mass WIMPs.*  
Hamburg, Germany, Astroparticle seminar (12.07.2010)  
*Neutrino oscillations: status and prospect.*  
Ljubljana, Slovenia, High energy physics seminar

(23.02.2010)

*Global interpretation of Dark Matter direct detection searches.*

ULB Brussels, Belgium, High energy physics seminar  
(12.01.2010)

**Sperl, A.:**

*Erzeugung und Charakterisierung von ultrakurzen Lichtimpulsen für einen Einsatz in Experimenten mit Attosekunden Präzision.*

Kaiserslautern, Germany, TU Kaiserslautern (02.06.2010)

**Srama, R.:**

*Tools for dust Astronomy.*

Kobe, Japan Kobe University (11.03.2010)

*The Cassini Huygens mission to Saturn.*

Kobe, Japan, Kobe University (12.03.2010)

*The Heidelberg dust accelerator and its applications.*

Baylor, USA, Baylor University (05.11.2010)

*Dust Research with Galileo, Ulysses and Cassini.*

Baylor, USA, Baylor University (05.11.2010)

*The hunt for interstellar dust with in-situ dust detectors.*

Bern, Schweiz, University of Bern (15.12.2010)

**Ullrich, J.:**

*Free Electron Lasers: Ultra-brilliant light for science.*

Innsbruck, Austria, Physikalisches Kolloquium (19.01.2010) and

Stockholm, Sweden, Colloquium (12.04.2010) and

Frankfurt, Germany, FIAS Colloquium (25.11.2010) and

Heidelberg, Germany, AMQ Kolloquium, (09.06.2010) and

Aarhus, Denmark, General Physics Colloquium (14.09.2010)

*Ultra-brilliant light for science.*

Groningen, Netherlands, Hendrik de Waard Lecture

(26.03.2010)

**Van Eldik, C.:**

*Gamma-Ray Astronomy meets Boosted Decision Trees.*

Tübingen, Germany, MPI für biologische Kybernetik

(07.2010)

**Voitkiv, A.:**

*Transfer-ionization in energetic ion-atom collisions.*

Gießen, Germany, Atomphysik-Seminar (01.07.2010)

*Ion-atom collisions.*

Lanzhou, China, lecture series, Institute for Modern

Physics, Chinese Academy of Science (July-August 2010)

**Voss, Helge.:**

*Data Analysis with TMVA.*

Lausanne, Switzerland, Seminar (12.04.2010)

**Welsch, C. P.:**

*Low energy antiproton facilities and beam instrumentation developments.*

Manchester, UK, Physics Seminar (01.12.2010)

*Research activities in the QUASAR group.*

Darmstadt, Germany, GSI Atomic Physics Seminar

(27.08.2010)

*Development of beam instrumentation for particle accelerators.*

Tokyo, Japan, RIKEN (20.05.2010)

**Winckler, N.:**

*Orbital electron capture decay studies of highly-charged ions.*

NuSTAR Seminar, GSI Darmstadt, Germany (02.06.2010)

**Wolf, A.:**

*Kalte Chemie mit schnellen Ionenstrahlen.*

Seminar für Festkörperphysik, Kirchhoff-Institut für Physik, Universität Heidelberg, Germany (18.06.2010)

*Cold Chemistry with Fast Ion and Electron Beam.*

Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China (06.09.2010)

**Xia, K.:**

*Ground state cooling of nanomechanical resonators.*

Heidelberg, Germany, University of Heidelberg, Physikalisches Institut, Quantum Optics and Quantum Information Group seminar (03.08.2010)

# Lectures and Courses at Universities

## Summer Semester 2009

- Aharonian, F. A.:**  
*Gamma Ray Astronomy.*  
Bad Honnef, DPG School on Astroparticle Physics.
- Blaum, K.:**  
*Vorlesung und Übung: Einführung in LaTeX.*  
Universität Heidelberg
- Blaum K., Litvinov, Y.:**  
*Vorlesung: Laserspektroskopie, Fallen und ihre Anwendungen.*  
Universität Heidelberg
- Dorn, A.:**  
*Fortgeschrittenenpraktikum II Betreuung.*  
Universität Heidelberg
- Evers, J.:**  
*Übungsgruppe: Physik II.*  
Universität Heidelberg
- Jochim, S.:**  
*Optics and Photonics.*  
Universität Heidelberg  
*Seminar: The Quantum Mechanics Solver.*  
Universität Heidelberg
- Keitel, C. H., Müller, C.:**  
*Oberseminar: Theoretische Quantendynamik.*  
Universität Heidelberg
- Knöpfle, K.T.:**  
*Detektorentwicklung und Datenanalyse für das GERDA Experiment.*  
Universität Heidelberg
- Lindner, M. and Rodejohann, W.:**  
*The Standard Model of Particle Physics II: Theory.*  
Universität Heidelberg
- Moshhammer, R.:**  
*Dynamik atomarer und molekularer Reaktionen.*  
Universität Heidelberg
- Müller, C., Pálffy, A.:**  
*Theoretische Atomphysik.*  
Universität Giessen
- Müller, C.:**  
*Übungsgruppe: Experimental Physics II.*  
Universität Heidelberg
- Schmelling, M.:**  
*Quantenchromodynamik.*  
Technische Universität Dortmund (Blockkurs)
- K. Simeonidis:**  
*Tutorial "Fortgeschrittenenpraktikum"*  
Universität Heidelberg
- Ullrich, J.:**  
*Seminar: Atomic Physics: Structure and Dynamics.*  
Universität Heidelberg
- Voss, H.:**  
*Multivariate Data Analysis and Machine Learning in High Energy Physics.*  
Universität Zürich (Blockkurs)
- Wolf, A. with Weidemüller, M.:**  
*Lecture Course: Optics and Photonics.*  
Universität Heidelberg

## Winter Semester 2009/2010

- Aharonian, F. A.:**  
*Frontiers in High Energy Astrophysics.*  
Jerusalem, Israel, 27<sup>th</sup> Jerusalem Winter School in Theoretical Physics  
*40<sup>th</sup> Saas-Fee Lecture Series: Astrophysics at Very High Energies.*  
Les Diablerets, Switzerland
- Blaum K.:**  
*Vorlesung: Experimentalphysik III.*  
Universität Heidelberg  
*Advanced Seminar on Stored and Cooled Ions*  
Universität Heidelberg
- Blaum K., Litvinov, Y.:**  
*Vorlesung: Laserspektroskopie, Fallen und ihre Anwendungen.*  
Universität Heidelberg
- Blaum, K., Wolf, A.:**  
*Graduate Seminar (Oberseminar): Physics with Stored and Cooled Ions.*  
Universität Heidelberg / MPIK
- de Ona Wilhelmi, E.:**  
*VHE Astronomy.*  
International School on Particle Acceleration, Nagoya, Japan, Universe at Nagoya University
- Dorn, A.:**  
*Fortgeschrittenenpraktikum II Betreuung.*  
Universität Heidelberg  
*Oberassistent Übung PEP3.*  
Universität Heidelberg
- Evers, J.:**  
*Quantum Optics.*  
Universität Heidelberg
- Jochim, S.:**  
*Übungen Experimentalphysik 1, Koordination.*  
Universität Heidelberg  
*Seminar: Ultrafast meets Ultracold: Experiments with short laser pulses and cold atoms.*  
Universität Heidelberg  
*Seminar: Quark Gluon Plasma & Cold Atoms.*  
Universität Heidelberg  
*Winterschule Graduate School "Ultracold gases: Extremely dilute, but strongly correlated".*  
Obergurgl, Austria
- Keitel, C. H., Di Piazza, A.:**  
*Oberseminar: Theoretische Quantendynamik.*  
Universität Heidelberg  
*The Quantum Vacuum.*  
Universität Heidelberg
- Kirk, J. G., Rieger, F., with Meisenheimer (MPA), Wagner (LSW):**  
*Sources of high-energy radiation.*  
Universität Heidelberg
- Knöpfle, K. T.:**  
*Detektorentwicklung und Datenanalyse für das GERDA Experiment.*  
Universität Heidelberg  
*Physikalisches Praktikum für Anfänger I*  
Universität Heidelberg

- Krätschmer, W.:**  
*Kohlenstoff-Nanostrukturen Teil 1.*  
Universität Heidelberg
- Lindner, M. and Rodejohann, W.:**  
*Aktuelle Themen der Astroteilchenphysik: Theorie und Experiment.*  
Universität Heidelberg
- Litvinov Y., Wolf, A.:**  
*Lecture Course: Physics with Stored and Cooled Ions.*  
Universität Heidelberg
- Müller, C.:**  
*Übungsgruppe: Experimental Physics I.*  
Universität Heidelberg
- Pfeifer, T.:**  
*Graduate Days Lecture Series: Attosecond Flashes of Light: Illuminating Electronic Quantum Dynamics.*  
Universität Heidelberg  
*Graduate Seminar (Oberseminar): Attosecond Physics and Quantum Control with Intense Laser Fields.*  
Universität Heidelberg / MPIK  
*HGSFP Winterschool Lecture: Quantum Dynamics and Control of Atoms, Molecules and Electrons on Attosecond Time Scales.*  
Universität Heidelberg, Universitätszentrum Obergurgl
- Pfeifer, T., Simeonidis, K., Jochim, S.:**  
*Undergraduate Seminar (Seminar für mittlere Semester): Ultrafast meets Ultracold: Experiments with short laser pulses and cold atoms.*  
Universität Heidelberg
- Schmelling, M.:**  
*CP-Verletzung und die Physik schwerer Quarks.*  
Technische Universität Dortmund (Blockkurs)  
*Statistische Datenauswertung.*  
Universität Siegen (Blockkurs)
- Schwetz-Mangold, T.:**  
*Dunkle Materie*  
Universität Heidelberg
- K. Simeonidis:**  
*Tutorial "Fortgeschrittenenpraktikum"*  
Universität Heidelberg
- Ullrich, J.:**  
*Seminar: Atomic Physics: Structure and Dynamics.*  
Universität Heidelberg
- Welsch, C. P.:**  
*Phys481, Introduction to Accelerator Physics.*  
*Phys259, Practical Physics.*  
University of Liverpool  
*Einführung in die Physik und Technologie von Teilchenbeschleunigern.*  
Universität Heidelberg
- Di Piazza, A.:**  
*Quantum Electrodynamics.*  
Universität Heidelberg
- Dorn, A.:**  
*Fortgeschrittenenpraktikum II Betreuung.*  
Universität Heidelberg
- Evers, J.:**  
*Visualizing Quantum Mechanics.*  
Universität Heidelberg
- Fischer, D.:**  
*Übungen zur Vorlesung Experimentalphysik IV*  
Universität Heidelberg
- Jochim, S.:**  
*Übungen Experimentalphysik 2, Koordination.*  
Universität Heidelberg  
*Seminar: Die Natur des Photons.*  
Universität Heidelberg  
*Seminar: Quark Gluon Plasma & Cold Atoms.*  
Universität Heidelberg
- Keitel, C. H., Di Piazza, A.:**  
*Oberseminar: Theoretische Quantendynamik.*  
Universität Heidelberg
- Kirk, J. G., Rieger, F., with Wagner (LSW):**  
*Active Galactic Nuclei.*  
Universität Heidelberg
- Knöpfle, K. T.:**  
*Detektorentwicklung und Datenanalyse für das GERDA Experiment.*  
Universität Heidelberg
- Krätschmer, W.:**  
*Kohlenstoff-Nanostrukturen Teil 2.*  
Universität Heidelberg
- Lindner, M. and Rodejohann, W.:**  
*Aktuelle Themen der Astroteilchenphysik: Theorie und Experiment.*  
Universität Heidelberg
- Litvinov, Y., Wolf, A.:**  
*Vorlesung: Physics with Stored and Cooled Ions.*  
Universität Heidelberg
- Moshammer, R.:**  
*Exercise course in Physik IV.*  
Universität Heidelberg
- Müller, C.:**  
*Übungsgruppe: Experimental Physics II.*  
Universität Heidelberg
- Pfeifer, T.:**  
*Übungen zur Experimentalphysik IV (PEP4).*  
Universität Heidelberg  
*Graduate Seminar (Oberseminar): Attosecond Physics and Quantum Control with Intense Laser Fields.*  
Universität Heidelberg / MPIK
- Pfeifer, T., Jochim, S., Weidemüller, M.:**  
*Undergraduate Seminar (Seminar für mittlere Semester): Die Natur des Photons.*  
Universität Heidelberg
- K. Simeonidis:**  
*Tutorial "Fortgeschrittenenpraktikum"*  
Universität Heidelberg
- Ullrich, J.:**  
*Seminar: Atomic Physics: Structure and Dynamics.*  
Universität Heidelberg

## Summer Semester 2010

- Blaum, K.:**  
*Advanced Seminar on Stored and Cooled Ions*  
Universität Heidelberg
- Blaum, K., Pálffy, A.:**  
*Vorlesung: Atom-Laser Wechselwirkung in Fallen.*  
Universität Heidelberg
- Crespo López-Urrutia, J., Ullrich, J.:**  
*Advanced Atomic and Molecular Physics.*  
Universität Heidelberg

**Voss, H.:**  
*Modern Techniques in Statistics and Data Analysis.*  
Universität Heidelberg (XXIV Graduiertentage)

**Wolf, A.:**  
*Übungen zur Experimentalphysik IV (PEP4).*  
Universität Heidelberg

## Winter Semester 2010/2011

**Akhmedov, E.:**  
*Neutrino Oscillations in Quantum Mechanics and Quantum Field Theory.*  
Lisbon, Portugal, Instituto Superior Tecnico, Universidade Tecnico de Lisboa (12.10-19.10.2010)

**Blaum, K.:**  
*Vorlesung: Experimentalphysik III.*  
Universität Heidelberg  
*Advanced Seminar on Stored and Cooled Ions*  
Universität Heidelberg

**Blaum, K., Wolf, A.:**  
*Graduate Seminar (Oberseminar): Physics with Stored and Cooled Ions.*  
Universität Heidelberg / MPIK

**Britsch, M.:**  
*Tutorial for experimental physics 3, optics, quantum physics and quantum statistics, for 3rd semester students.*  
Universität Heidelberg

**Crespo López-Urrutia, J., Ullrich, J.:**  
*Advanced Atomic and Molecular Physics.*  
Universität Heidelberg

**Di Piazza, A.:**  
*Übungsgruppe: Experimental Physics I.*  
Universität Heidelberg

**Dorn, A.:**  
*Fortgeschrittenenpraktikum II Betreuung.*  
Universität Heidelberg  
*Oberassistent Übung PEP3.*  
Universität Heidelberg

**Evers, J.:**  
*Light-Matter Interactions.*  
Universität Heidelberg

**Fischer, D.:**  
*Übungen zur Vorlesung Experimentalphysik I*  
Universität Heidelberg

**Jochim, S.:**  
*Übungen Experimentalphysik 2, Koordination.*  
Universität Heidelberg

**Keitel, C. H., Di Piazza, A.:**  
*Oberseminar: Theoretische Quantendynamik.*  
Universität Heidelberg

**Kirk, J. G., Rieger, F., with Wagner (LSW):**  
*Sources of high-energy radiation.*  
Universität Heidelberg

**Knöpfle, K. T.:**  
*Detektorentwicklung und Datenanalyse für das GERDA Experiment.*  
Universität Heidelberg  
*Physikalisches Praktikum für Anfänger I*  
Universität Heidelberg

**Lindner, M. and Rodejohann, W.:**  
*The Standard Model of Particle Physics II: Theory.*  
Universität Heidelberg

**Moshhammer, R., Pfeifer, T., Weidemüller, M.:**  
*Advanced Student Seminar: Modern Topics in Atomic, Molecular and Optical Physics.*  
Universität Heidelberg

**Müller, C.:**  
*Gruppentheorie für Physiker.*  
Universität Heidelberg

**Pfeifer, T.:**  
*Graduate Seminar (Oberseminar): Attosecond Physics and Quantum Control with Intense Laser Fields.*  
Universität Heidelberg / MPIK

**K. Simeonidis:**  
*Tutorial "Fortgeschrittenenpraktikum"*  
Universität Heidelberg

**Ullrich, J.:**  
*Seminar: Atomic Physics: Structure and Dynamics.*  
Universität Heidelberg

**Welsch, C. P.:**  
*Introduction to Accelerator Physics. Practical Physics.*  
University of Liverpool

**Wolf, A.:**  
*Übungen zur Experimentalphysik III (PEP3).*  
Universität Heidelberg

## Jointly Organized Conferences and Workshops

- Argonne National Lab, USA, Workshop on Evolution and Control of Complexity: Key Experiments Using Sources of Hard X-rays, Co-Chair, Panel "Nonlinear X-ray Science & Hard X-ray Quantum Optics" (11.10.-13.10.2010)  
**J. Evers**
- Bad Honnef, Germany, Accelerator and High Energy Physics (05.07.-09.07.2009)  
**C. P. Welsch**
- Bern, Switzerland, 1. ISS workshop (18. 01.-22.01.2010)  
**S. Kempf, J. Schmidt** (Potsdam University)
- Bern, Switzerland, 2. ISS workshop (14.06.-18.06.2010)  
**S. Kempf, J. Schmidt** (Potsdam University)
- Bonn, Germany, DPG Fruehjahrstagung, parallel session Neutrino Physics (Theory) (15.03.2010-19.03.2010)  
**Rodejohann, W.**
- CERN Theory Institute nuTheME: Neutrino Theory, Models, and Experimental perspectives, CERN, Geneva, Switzerland (13.09.-21.09.2010)  
**Schwetz-Mangold, T.**
- Dresden, Germany, Focus Workshop on Key Experiments with X-ray Pulses from the Perspective of Theory (MOLX09) (10.09.-12.09.2009)  
**J. Ullrich, J. M. Rost, I. Schlichting, L. Strüder**
- Dresden, Germany, Focus Workshop on Molecules under X-ray Pulses (MOLX10) (15.11.-17.11.2010)  
**S. Techert, J. Ullrich, J. M. Rost**
- Geneva, Switzerland, CERN, 2<sup>nd</sup> Workshop on MVA (09.07.2009)  
**M. Schmelling**
- Glasgow, UK, MPI@LHC 2010: 2<sup>nd</sup> International Workshop on Multiple Partonic Interactions at the LHC (29.11.-03.12.2010)  
**M. Schmelling**
- Heidelberg, Germany, 25<sup>th</sup> TEXAS Symposium on Relativistic Astrophysics (06.12.-12.12.2010)  
**F. A. Aharonian, W. Hofmann, F. Rieger**
- Heidelberg, Germany, 2<sup>nd</sup> Heidelberg Workshop on High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources (13.01.-16. 01.2009)  
**E. Resconi**
- Heidelberg, Germany, 2<sup>nd</sup> IMPRS for Quantum Dynamics Symposium (14.10.2010)  
**C. H. Keitel, C. Müller**
- Heidelberg, Germany, Beauty'09 Conference (07.09.-11.09.2009)  
**M. Schmelling**
- Heidelberg, Germany, High Energy Gamma Rays and Neutrinos from Extragalactic sources, (13.01.-16.01.2009)  
**F. A. Aharonian, E. Resconi**
- Heidelberg, Germany, Nuclei in the Cosmos (NIC) XI (19.07.-23.07.2010)  
**K. Blaum**
- Heidelberg, Germany, TSR@ISOLDE Workshop (29.-30.10.2010)  
**K. Blaum**
- Heidelberg, Germany, Variable Galactic Sources Workshop (30.11.-03.12.2010)  
**F. A. Aharonian, V. Bosch Ramon, D. Khangulyan**
- Heidelberg, Germany, Workshop on Learning from Astroparticle, Underground, Neutrino Physics and Cosmology (LAUNCH09) (09.11.-12.11.2009)  
**E. Akhmedov, A. Berneiser, C. Buck, M. Lindner, W. Rodejohann, S. Schoenert, T. Schwetz-Mangold, H. Simgen, G. Zuzel**
- Hirschberg, Germany, Low Energy, Low Intensity Beam Profile Measurements (24.11.-25.11.2009)  
**C. P. Welsch**
- Höchst i. O., Germany, Accelerator Science and Technology (05.09.-09.09.2010)  
**C. P. Welsch**
- Hohenwart, Germany, Accelerator Science and Technology (06.09.-10.09.2009)  
**C. P. Welsch**
- Istanbul, Turkey, Shape-Phase Transitions Workshop (16.09.-18.09.2009)  
**B. Cakirli**
- Kazan, Russia, International Conference on Coherent and Nonlinear Optics (ICONO 2010)/International Conference on Lasers, Applications, and Technologies (LAT 2010), LAT Symposium on Extreme Light Technologies (23.08.-26.08.2010)  
**C. H. Keitel**
- Kreuth, Germany, Schloss Ringberg, International Workshop on "Science with FELs – from first results to future perspectives" (14.03.-17.03.2010)  
**J. Ullrich, I. Schlichting**
- Kreuth, Germany, Schloss Ringberg, The GeV to TeV Connection: Science at 10 GeV to 100 GeV (11.01.-16.01.2009)  
**F. A. Aharonian, W. Hofmann, S. Wagner, F. Rieger, M. Raue**
- Liverpool, UK, International School on Complementary Skills (15.03.-19.03.2010)  
**C. P. Welsch**
- Otranto, Italy, Neutrino Oscillation Workshop (NOW2010), parallel session Messengers of New Physics (04.09.2010-11.09.2010)  
**Lindner, M., Rodejohann, W.**
- Reykjavik, Iceland, PARA 2010 State of the Art in Scientific and Parallel Computing, Minisymposium: Real-Time Access and Processing of Large Data Sets (06.06.-09.06.2009)  
**M. Schmelling**
- Riezlern, Austria, 30. Arbeitstagung Energiereiche Atomare Stöße (EAS) (08.02.-13.02.2009)  
**J. Ullrich, J. M. Rost**
- Riezlern, Austria, 31. Arbeitstagung Energiereiche Atomare Stöße (EAS) (01.02.-04.02.2010)  
**J. Ullrich, J. M. Rost**
- Riezlern, Austria, Quark-Gluon Plasma meets Cold Atoms - Episode II (03.08.-08.08.2009)  
**S. Jochim**
- Tokyo, Japan, ISAS, Exploring Supernova Remnants and Pulsar Wind Nebulae in X-rays (18.02-19.02.2010)  
**F. A. Aharonian, A. Bamba**
- Warrington, UK, Longitudinal Beam Profile Measurements in Accelerators and Light Sources (12.07.-13.07.2010)  
**C. P. Welsch**

## Habilitations

**Müller, C.:** Laser-induced high-energy processes in atomic, nuclear, and particle physics. Habilitation, Ruprecht-Karls Universität, Heidelberg (2009).

**Srama, R.:** Cassini-Huygens and beyond - tools for dust astronomy. Habilitation, Universität Stuttgart, Stuttgart (2009).

## Dissertations

**Barnabé Heider, M.:** Performance and stability tests of bare high purity germanium detectors in liquid argon for the GERDA experiment. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Blum, A. S.:** Dihedral Flavor Symmetries. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg, Germany (2009).

**Boie, H.-H.:** Bremsstrahlung Emission Probability in the  $\alpha$  Decay of  $^{210}\text{Po}$ . Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Budjás, D.:** Germanium detector studies in the framework of the GERDA experiment. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2009).

**Bühler, R.:** Two exceptional flares of the active galaxy PKS 2155-304 at very high energy  $\gamma$ -rays and their implications on blazar and fundamental physics. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg, Germany (2009).

**Dworschak, M. G.:** First direct mass measurements on nobelium and lawrencium with the Penning trap mass spectrometer SHIPTRAP. Doktorarbeit, Johannes-Gutenberg-Universität, Mainz (2009).

**Egberts, K.:** The Energy Spectrum of Cosmic-Ray Electrons Measured with H.E.S.S.. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Fleischhaker, R.:** Light propagation in dense and chiral media. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**George, S.:** First Ramsey-type mass measurements with ISOLTRAP and design studies of the new PENTATRAP project. Doktorarbeit, Johannes-Gutenberg-Universität, Mainz (2009).

**Hetzheim, H.:** Ionization and bound-state relativistic quantum dynamics in laser-driven multiply charged ions. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2009).

**Hoffmann, J.:** Ionic fragmentation channels in electron collisions of small molecular ions. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg, Germany (2009).

**Kopp, J.:** New Phenomena in Neutrino Physics. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg, Germany (2009).

**Krantz, C.:** Intense electron beams from GaAs photocathodes as a tool for molecular and atomic physics. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2009).

**Kreim, S. W.:** Direct observation of a single proton in a Penning trap. Towards a direct measurement of the proton  $g$ -factor. Doktorarbeit, Johannes-Gutenberg-Universität, Mainz (2009).

**Kremer, M.:** Einfluß der Träger-Einhüllenden-Phase auf die Wechselwirkung ultrakurzer Laserpuls mit Molekülen.

Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Maciuc, F.:** Software Alignment of the LHCb Inner Tracker Sensors. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Merle, A.:** The mysteries of Leptons : new physics and unexplained phenomena. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Reichl, U.:** Messungen von Aerosol-Vorläufergasen im Abgas moderner Diesel-Kraftfahrzeugmotoren. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg, Germany (2009).

**Ruf, M.:** Numerical studies of pair creation in counterpropagating laser fields. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Ruggenthaler, M.:** Time-Dependent Density Functional Theory for Intense Laser-Matter Interaction. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Senftleben, A.:** Kinematically complete study on electron-impact ionisation of aligned hydrogen molecules. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

**Shahbaz, A.:** Muonic Atoms in Super-Intense Laser Fields. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg, Germany (2009).

**Warring, U.:** Laser Spectroscopy on  $\text{Os}^-$ : A Prerequisite for the Laser Cooling of Atomic Anions. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2009).

## Diploma and Master Theses

**Bastert, R.:** Erzeugung kurzer Ionenpulse in einem Speicherring. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

**Böhm, C.:** Setup of a carbon-cluster laser ion source and the application of the invariance theorem at ISOLTRAP. Diplom, Johannes-Gutenberg-Universität, Mainz (2009).

**Egberts, J.:** Investigations on transverse beam profile measurements with high dynamic range. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

**Eibach, M.:** Characterization of a carbon aerosol generator in a helium gas-jet for the extraction of fission products from the research reactor TRIGA Mainz. Diplom, Johannes-Gutenberg-Universität, Mainz (2009).

**Fischer, A.:** Laser Spectroscopy on the Negative Osmium Ion. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

**Gast, R.:** Investigating systematics in the energy reconstruction of the H.E.S.S. telescopes. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

**Gulfam, Q.-u.-A.:** Measurement of Distance and Orientation of Two Atoms in Arbitrary Geometry. Master, Ruprecht-Karls-Universität, Heidelberg (2009).

**Higgins, S.:** Implementation of a Deceleration Beamline for the Investigation of Charge Exchange Processes using Highly Charged Ions. Master, Imperial College, London, United Kingdom (2009).

**Hofrichter, C.:** A stereo electron spectrometer for carrier-envelope phase measurements of few-cycle laser pulses. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

- Ketter, J.:** Verbesserungen der Ionennachweissysteme des Präzisions-Penningfallen-Massenspektrometers TRIGA-TRAP. Diplom, Johannes-Gutenberg-Universität, Mainz (2009).
- Knuth, K.:** Aufbau eines breitbandigen FT-ICR-Nachweissystems für TRIGA-TRAP. Diplom, Johannes-Gutenberg-Universität, Mainz (2009).
- Lindemann, S.:** Reinigung und Nachweis von Edelgasen mit miniaturisierten Proportionalzählrohren. Diplom, Ruprecht-Karls Universität Heidelberg, Heidelberg (2009).
- Mackenroth, K. F.:** Multiphoton COMPTON scattering in ultra-short laser pulses. Diplom, Ruprecht-Karls-Universität, Heidelberg (2009).
- Menk, S.:** A Cryogenic Trap for Fast Ion Beams. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).
- Müller, S.:** Elektron-Positron-Paarzeugung durch Multiphotonen-Absorption im Stoß eines relativistischen Myons mit einem hochfrequenten Laserstrahl. Diplom, Ruprecht-Karls-Universität, Heidelberg (2009).
- Müller, T.-O.:** Spin-Effekte bei der Multiphotonen-Paarzeugung. Diplom, Ruprecht-Karls-Universität, Heidelberg (2009).
- Rosa, A.:** Berechnungen der Ionenoptik und Aufbau einer temperaturstabilisierten Spannungsquelle für das PEN-TATRAP-Experiment. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).
- Schömers, C.:** Untersuchungen zur Magnetfeldregelung an normal-leitenden Synchrotronen. Diplom, Ruprecht-Karls Universität, Heidelberg, Germany (2009).
- Schürholz, M.:** Pump-Probe Experimente an Molekülen mit intensiven Laserpulsen. Diplom, Ruprecht-Karls Universität, Heidelberg, Germany (2009).
- Schug, M.:** Aufbau und Test einer phasensensitiven Laserfrequenz-Langzeitstabilisierung an COLLAPS. Diplom, Johannes-Gutenberg-Universität, Mainz (2009).
- Schwarz, M.:** Photoionisation von neonartigem Argon in einer Elektronenstrahl-Ionenfalle. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).
- Simmat, E.:** Infrared Properties of the Halo, Bulge and Disk of the Edge-On Galaxy NGC 7814. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).
- Sperl, A. G.:** Erzeugung und Charakterisierung ultrakurzer Lichtimpulse für die Generation Hoher Harmonischer Strahlung. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).
- Toppin, M.-A.:** Pump-Probe-Messungen an N<sub>2</sub>-Molekülen am Freie-Elektronen-Laser FLASH in Hamburg. Diplom, Ruprecht-Karls-Universität, Heidelberg (2009).
- Weber, M.:** Experimente zum Entwurf einer Detektorabschirmung für ein neues Gamma-Spektrometer. Diplom, Ruprecht-Karls-Universität, Heidelberg (2009).
- Wenz, A. N.:** Few-Body Physics in a Three-Component Fermi Gas. Diplom, Ruprecht-Karls Universität, Heidelberg, Germany (2009).
- Zürn, G.:** Realization of an Optical Microtrap for a Highly Degenerate Fermi Gas. Diplom, Ruprecht-Karls Universität, Heidelberg (2009).

## Habilitation

**Di Piazza, A.:** Strong-field CED and QED in intense laser fields. Habilitation, Ruprecht-Karls-Universität, Heidelberg (2010).

## Dissertations

**Adulpravitchai, A.:** A possible solution of the flavor problem and radiative neutrino masses. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Bing, D.:** Untersuchungen zur Mehrstufen-Laserspektroskopie an gespeicherten  $H_3^+$ -Molekülonen. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Fischer, B.:** Time resolved studies of  $H_2^+$  dissociation with phase-stabilized laser pulses. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Froese, M. W.:** A cryogenic electrostatic ion trap and first experiments on delayed emission of aluminium anion clusters and self-bunching. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Ginzel, R.:** Wechselwirkung niederenergetischer hochgeladener Ionen mit Materie. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Gopal, R.:** Electron Wave Packet Interferences in Ionization with Few-Cycle Laser Pulses and the Dissociative Photoionization of  $D_2$  with Ultrashort Extreme Ultraviolet Pulses. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Hohenegger, A.:** Finite Density Aspects of Leptogenesis. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Hsu, H.-W.:** Dynamics of Jovian and Saturnian stream particles. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Ketelaer, J.:** The construction of Triga-Trap and direct high-precision Penning trap mass measurements on rare-earth elements and americium. Doktorarbeit, Johannes-Gutenberg-Universität, Mainz (2010).

**King, B. J.:** Vacuum polarisation effects in intense laser fields. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Kubicek, K.:** Absolut- und Relativbestimmungen der Energien von 2p-1s-Übergängen in wasserstoff-, helium- sowie lithiumartigen Schwefel-, Argon- und Eisenionen. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Mäckel, V.:** Laserspektroskopie hochgeladener Ionen an der Heidelberger Elektronenstrahl-Ionenfalle. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Mendes, M. B.:** Molecular fragmentation by recombination with cold electrons studied with a mass sensitive imaging detector. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Natale, G.:** Dust emission and star formation of the Stephan's Quintet compact group of galaxies. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Neidherr, D.:** Nuclear structure studies in the xenon and radon region and the discovery of a new radon isotope by Penning trap mass spectrometry. Doktorarbeit, Johannes-Gutenberg-Universität, Mainz (2010).

**Nekrassov, D.:** A detailed study of the H.E.S.S. data from the galactic center region. Doktorarbeit, Ruprecht-Karls-Universität Heidelberg, Heidelberg (2010).

**Niro, V.:** Indirect detection of Dark Matter with neutrinos. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2010).

**Ohm, S.:** Development of an advanced gamma/hadron separation technique and application to particular gamma-ray sources with H.E.S.S.. Doktorarbeit, Ruprecht-Karls-Universität Heidelberg, Heidelberg (2010).

**Ottenstein, T. B.:** Few-body physics in ultracold Fermi gases. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2010).

**Postavaru, O.:** Strong-field relativistic processes in highly charged ions. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

**Sestayo de la Cerra, Y.:** Search for high energy neutrinos from our galaxy with IceCube. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2010).

**Simon, M. C.:** Photoionisation hochgeladener Ionen durch weiche Röntgenstrahlung in einer Elektronenstrahl-Ionenfalle. Doktorarbeit, Ruprecht-Karls Universität, Heidelberg (2010).

**Zacharopoulou, O.:** On the Origin of the Unusually Hard  $\gamma$ -ray Spectra of TeV Blazars. Doktorarbeit, Ruprecht-Karls-Universität, Heidelberg (2010).

## Diploma and Bachelor Theses

**Brunner, F. R.:** Entwurf und Aufbau einer kryogenen, linearen Paulfalle für hochgeladene Ionen. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).

**Donath, A.:** Modelling Galactic Gamma-ray source populations. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).

**Fink, D.:** The ISOLTRAP Laser-Ablation Ion Source and Q-Value Determination of the  $^{110}\text{Pd}$  Double Beta Decay. Diplom, Johannes-Gutenberg-Universität, Mainz (2010).

**Fischer, A.:** Erzeugung und Dispersionskontrolle von Femtosekundenlaserimpulsen. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).

**Georgi, S.:** Untersuchungen zur Totschicht von BEGe-Dektoren im Rahmen des GERDA Experiments. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).

**Hahn, J.:** Modelling the inverse compton emission from pulsar wind nebulae. Diplom, Ruprecht-Karls Universität, Heidelberg (2010).

**Haser, J. A.:** Die Datennahmekette des Double Chooz Experiments und ihre Komponenten - Eigenschaften der Photomultiplier und der Frontend-Elektronik. Diplom, Ruprecht-Karls-Universität Heidelberg, Heidelberg (2010).

**Heck, R.:** Erzeugung hoher Harmonischer durch Interferenz freier Elektronenwellenpakete / Charakterisierung und Einrichtung eines Toroidalspiegels. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).

**Herpich, J.:** Testing a Single-CCD-Concept for the H.E.S.S. II Pointing. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).

- Hettmansperger, H.:** KeV sterile neutrino warm dark matter in gauge extensions of the standard model. Diplom, Ruprecht-Karls Universität Heidelberg, Heidelberg (2010).
- Hillert, A.:** Modeling the galactic diffuse gamma-ray emission. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Höcker, M.:** Untersuchungen zum Ionentransfer im UW/ MPIK Doppel-Penningfallen Experiment. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Holzwarth, M.:** Kinematically complete study on Positron impact ionization of Helium. Diplom, Ruprecht-Karls Universität, Heidelberg (2010).
- Kahlhöfer, F.:** Sensitivity of Liquid Xenon Detectors for Low Mass Dark Matter. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Klinkhamer, V.:** Konzepte für einen Fragmentdetektor für Umladungsexperimente im CSR. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Kronberg, N.:** Zero-Point Energies in Cosmology. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Marschar, A.:** Messung und Kontrolle der Träger-Einhüllenden-Phase von ultrakurzen Laserpulsen. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Meuren, S.:** Radiative corrections to electron states in intense laser fields. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Mrowczynski, P.:** Konstruktion und Inbetriebnahme eines Flugzeit-Spektrometers für Ionen in Ladungsaustausch-Reaktionen an der Heidelberg-EBIT. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Nordhorn, C.:** Dissociative recombination of deuterated formyl cations. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Prieß, M.:** Aktive Intensitätsstabilisierung eines Femtosekunden-Lasersystems. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Reis, W.:** Neutralization of aluminium cluster anions by laser induced delayed emission in an electrostatic ion trap. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Ries, M. G.:** A magneto-optical trap for the preparation of a three-component Fermi gas in an optical lattice. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Schlegel, I.:** Ultra-short time scale physics (simulations and experimental methods) / Technical implementation of a laser monitoring and beam shutting system. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Schmidt, D.:** Neutrinos and Dark Matter Within an Extended Zee-Babu Model. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Schmidt-May, A. M.:** RIDE across the Universe. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Schmitz, F.:** Schottky Diagnostics at the Heavy Ion Cooler Storage Ring TSR. Bachelor, Ruprecht-Karls Universität, Heidelberg (2010).
- Schönhals, A.:** Fast decay of highly excited  $SF_6^-$  cluster anions with the CTF. Bachelor, Ruprecht-Karls-Universität, Heidelberg (2010).
- Schönwald, M.:** Phase-matched few-cycle high-harmonic generation: ionisation gating and half-cycle cutoffs. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Sell, M.:** Entwicklung, Aufbau und Test eines ortsempfindlichen Teilchendetektors zur Untersuchung von Stößen zwischen Ionen und lasergekühlten Atomen. Bachelor, Ruprecht-Karls Universität, Heidelberg (2010).
- Sellner, S.:** Real-Time Imaging of the Annihilation Vertex Distributions for Antiprotons Stopping in Biological Targets. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Simon, P.:** Apparatus for the preparation of ultracold Fermi gases. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Steinbrügge, R. F.:** Weiterentwicklung eines Geschwindigkeits filters zur Beobachtung ladungsändernder Prozesse hochgeladener Ionen. Diplom, Ruprecht-Karls-Universität, Heidelberg (2010).
- Voge, M.:** Time-dependent search for astrophysical neutrinos from microquasar Cygnus X-3 using IceCube and AMANDA. Diplom, Universität Hamburg, Hamburg (2010).
- Wagner, S.:** Ionization Quenching by Low Energy Electrons in the Double Chooz Scintillators. Diplom, Ruprecht-Karls Universität, Heidelberg (2010).

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### **A Reaction Microscope for Positron Collisions:**

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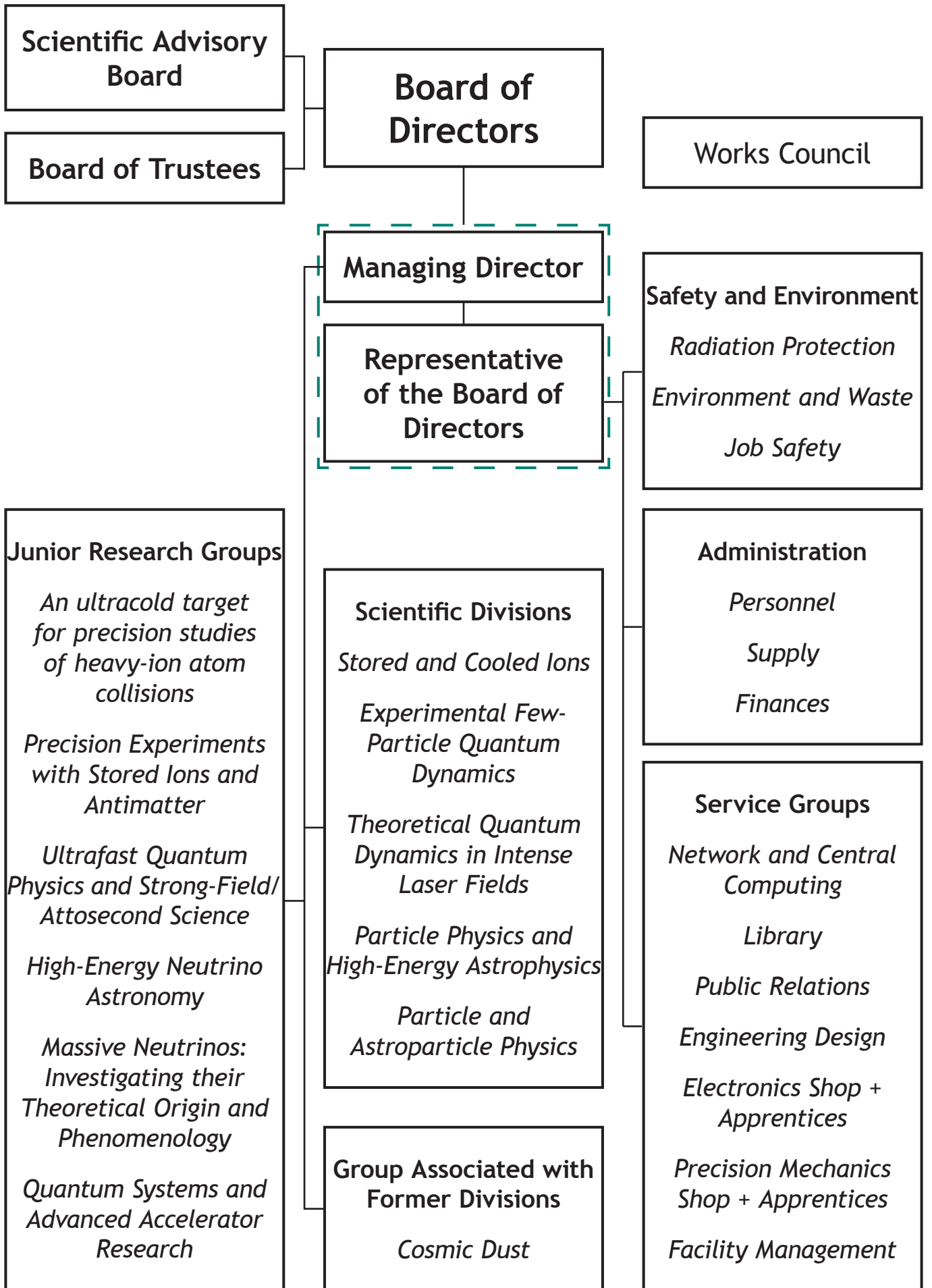
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