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GERDA

the GERmanium Detector Array



List of Publications

all printed work (sorted by time)

1. *Adsorption techniques for gas purification,*
H. Simgen,
In Proc. *Topical Workshop on Low Radioactivity Techniques LRT 2004*,
AIP Conference Procs. **785** (2005) 121, Sudbury, Ont., Canada. 12-14 Dec. 2004, AIP, 2005.
2. *The GERmanium DETECTOR ARRAY (GERDA) for the search of neutrinoless $\beta\beta$ decays of Ge-76 at LNGS,*
S. Schonert, I. Abt, M. Altmann, A.M. Bakalyarov, I. Barabanov, C. Bauer, M. Bauer, E. Bellotti, S. Belogurov, S.T. Belyaev, A. Bettini, I. Bezrukov, V. Brudanin, C. Buttner, V.P. Bolotsky, A. Caldwell, C. Cattadori, M.V. Chirchenko, O. Chkvorets, H. Clement, E. Demidova, A. Di Vacri, J. Eberth, V. Egorov, E. Farnea, A. Gangapshev, G.Y. Grigoriev, V. Gurentsov, K. Gusev, W. Hampel, G. Heusser, W. Hofmann, L.V. Inzhechik, J. Jochum, M. Junker, S. Katulina, J. Kiko, I.V. Kirpichnikov, A. Klimenko, K.T. Knöpfle, O. Kochetov, V.N. Kornoukhov, R. Kotthaus, V. Kusminov, M. Laubenstein, V.I. Lebedev, X. Liu, H.G. Moser, I. Nemchenok, L. Pandola, P. Peiffer, R.H. Richter, K. Rottler, C.R. Alvarez, V. Sandukovsky, S. Schonert, S. Scholl, J. Schreiner, B. Schwingenheuer, H. Simgen, A. Smolnikov, A. Tikhomirov, C. Tomei, C.A. Ur, A.A. Vasenko, S. Vasiliev, D. Weisshaar, M. Wojcik, E. Yanovich, J. Yurkowski, S.V. Zhukov, and G. Zuzel,
In Proc. *Nucl. Phys. B*,
Nucl. Phys. **B145** (2005) 242, 2005.
3. *Low ^{222}Rn nitrogen gas generator for ultra-low background counting systems,*
M. Wojcik and G. Zuzel,
Nucl. Instr. Methods **A539** (2005) 427.
4. *Low level counting from meteorites to neutrinos,*
G. Heusser,
In Proc. *Topical Workshop on Low Radioactivity Techniques LRT 2004*,
AIP Conference Procs. **785** (2005) 39, Sudbury, Ont., Canada. 12-14 Dec. 2004, AIP, 2005.
5. *Operation of bare HP-Germanium detectors in liquid argon (LAr),*
P. Peiffer, D. Motta, S. Schoenert, and H. Simgen,
Nucl. Phys. **B143** (2005) 511.
6. *Single-transistor option for high-resolution γ -ray spectroscopy in hostile environments,*
A. Pullia, F. Zocca, and C. Cattadori,
In Proc. *Fajardo*,
p. 387, Fajardo, Puerto Rico. 23-29 Oct. 2005, 2005.
7. *Terra Incognita I,*
M. Lindner and S. Schonert,
Nucl. Phys. **B145** (2005) 361.

8. GERDA: *A new Ge-76 double β decay experiment at Gran Sasso*,
H. Simgen,
Nucl. Phys. **B143** (2005) 567.
9. *The ^{76}Ge double- β decay experiment GERDA at LNGS*,
M. Wojcik,
Acta Physica Polonica **B37** (2006) 1923.
10. *Cosmogenic activation of germanium and its reduction for low background experiments*,
S. Belogurov, I. Barabanov, L. Bezrukov, A. Denisov, V. Kornoukhov, and N. Sobolevsky,
Nucl. Instr. Methods **B251** (2006) 115.
11. *A fast VLSI preamplifier for segmented HPGe γ -ray detectors*,
A. Pullia, F. Zocca, S. Riboldi, and C. Cattadori,
In Proc. *IEEE San Diego*,
p. 4, San Diego, CA, USA. 29 Oct.-4 Nov. 2006, 2006.
12. *Geant4 and its validation*,
K. Amako, S. Guatelli, V. Ivanchenko, M. Maire, B. Mascialino, K. Murakami, L. Pandola, S. Parlati,
M.G. Pia, M. Piergentili, T. Sasaki, and L. Urban,
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13. *GERDA: a germanium detector array to search for neutrinoless double β decay*,
E. Bellotti,
J. Phys.: Conf. Ser. **39** (2006) 338.
14. *GERDA, the GERmanium Detector Array for the search of neutrinoless double beta decay of Ge-76*,
K. T. Knoepfle for the GERDA collaboration,
In Proc. *PoS HEP2005*,
PoS HEP2005 (2006) 169, Lisboa, 2006.
15. *GERmanium detector array, GERDA*,
X. Liu,
In Proc. *Phys. Scr.* ,
Phys. Scr. **T127** (2006) 46, 2006.
16. *Investigation of double- β decay at the Institute of Theoretical and Experimental Physics (ITEP, Moscow)*,
O.Ya. Zeldovich and I.V. Kirpichnikov,
Phys. Atom. Nucl. **69** (2006) 1657.
17. *Low-level techniques applied in BOREXINO and GERDA*,
G. Heusser, H. Simgen, and G. Zuzel,
J. Phys.: Conf. Ser. **39** (2006) .
18. *Low-noise amplification of γ -ray detector signals in hostile environments*,
A. Pullia, F. Zocca, and C. Cattadori,
IEEE Transactions on Nuclear Science **53** (2006) 1744.
19. *MaGe: a Monte Carlo framework for the Gerda and Majorana double β decay experiments*,
M. Bauer, S. Belogurov, Y.D. Chan, M. Descovich, J. Detwiler, M. Di Marco, B. Fujikawa, D. Franco,
V. Gehman, R. Henning, K. Hudek, R. Johnson, D. Jordan, K. Kazkaz, A. Klimenko, M. Knapp,
K. Kroeninger, K. Lesko, X. Liu, M. Marino, A. Mokhtarani, L. Pandola, M. Perry, A. Poon, D. Radford,
C. Tomei, and C. Tull,
J. Phys.: Conf. Ser. **39** (2006) 1.
20. *MUCR42BETA: muon capture rates for double- β decay*,
V. Egorov, V. Brudanin, K. Gromov, A. Klinskikh, M. Shirchenko, Ts. Vylov, I. Yutlandov, D. Zinatulina,
C. Briancon, C. Petitjean, and O. Naviliat-Cuncic,
Czech. J. Phys. **56** (2006) 453.
21. *New requirements on enriched isotopes for experiments studying neutrinoless double β -decay (GERDA experiment)*,
A.N. Shubin, A.N. Gilev, D.B. Kononov, A.A. Mis'kov, E.A. Nikitina, G.M. Skorynin, I.R. Barabanov,

- L.B. Bezrukov, A.N. Denisov, N.M. Sobolevskii, S.G. Belogurov, V.N. Kornoukhov, M. Altman, and A. Caldwell,
Atomic Energy **101** (2006) 588.
22. *Signal discovery in sparse spectra: a bayesian analysis*,
 A. Caldwell and K. Kroninger,
Phys. Rev. D **74** (2006) 92003.
23. *Status and Perspectives of Neutrino Physics*,
 A. Bettini,
Nucl. Phys. B **151** (2006) 270.
24. *Status of the Germanium Detector Array (GERDA) for the search of neutrinoless $\beta\beta$ decays of ^{76}Ge at LNGS*,
 S. Schönert,
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25. *Status of the Germanium Detector Array (GERDA) for the search of neutrinoless $\beta\beta$ decays of Ge-76 at LNGS*,
 S. Schönert,
 In Proc. *Prog. Part. and Nucl. Phys.* ,
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26. *Status of the Germanium Detector Array (GERDA) in the search of neutrinoless $\beta\beta$ decays of Ge-76 at LNGS*,
 S. Schönert, I. Abt, M. Altmann, A.M. Bakalyarov, I. Barabanov, C. Bauer, M. Bauer, E. Bellotti, S. Belogurov, S.T. Belyaev, A. Bettini, L. Bezrukov, V. Brudanin, V.P. Bolotsky, A. Caldwell, C. Cattadori, M.V. Chirchenko, O. Chkvorets, E. Demidova, A. Di Vacri, J. Eberth, V. Egorov, E. Farnea, A. Gagapshev, J. Gasparro, P. Grabmayr, G.Y. Grigoriev, V. Gurentsov, K. Gusev, W. Hampel, G. Heusser, M. Heisel, W. Hofmann, M. Hult, L.V. Inzhechik, J. Jochum, M. Junker, S. Katulina, J. Kiko, I.V. Kirpichnikov, A. Klimenko, M. Knapp, K.T. Knöpfle, O. Kochetov, V.N. Kornoukhov, K. Kroninger, V.V. Kuzminov, M. Laubenstein, V.I. Lebedev, X. Liu, B. Majorovits, G. Marissens, I. Nemchenok, L. Pandola, P. Peiffer, A. Pullia, C.R. Alvarez, V. Sandukovsky, S. Scholl, J. Schreiner, U. Schwan, B. Schwingenheuer, H. Simgen, A. Smolnikov, F. Stelzer, A.V. Tikhomirov, C. Tomei, C.A. Ur, A.A. Vasenko, S. Vasiliev, D. Weisshaar, M. Wojcik, E. Yanovich, J. Yurkowski, S.V. Zhukov, F. Zocca, and G. Zuzel,
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27. *Status of the Germanium detector array (GERDA) in the search of neutrinoless $\beta\beta$ decays of ^{76}Ge at LNGS*,
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29. *Towards pulse shape analysis for the GERDA experiment*,
 K. Kroninger,
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30. *Ultrapure gases for GERDA*,
H. Simgen,
In Proc. *Prog. Part. and Nucl. Phys.* ,
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31. *Background reduction in neutrinoless double β decay experiments using segmented detectors - A Monte Carlo study for the GERDA setup*,
I. Abt, M. Altmann, A. Caldwell, K. Kröninger, X. Liu, B. Majorovits, L. Pandola, and C. Tomei,
Nucl. Instr. Methods **A570** (2007) 479.
32. *Background reduction in neutrinoless double β decay experiments using segmented detectors-A Monte Carlo study for the GERDA setup*,
K. Kröninger, I. Abt, M. Altmann, A. Caldwell, X. Liu, B. Majorovits, L. Pandola, and C. Tomei,
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33. *Behavior of the ^{222}Rn daughters on copper surfaces during cleaning*,
M. Wojcik and G. Zuzel,
In Proc. *Topical Workshop on Low Radioactivity Techniques: LRT 2006*,
AIP Conference Procs. **897** (2007) 53, Aussois, France. 1-4 Oct. 2006, AIP, 2007.
34. *Characterization of the first true coaxial 18-fold segmented n-type prototype HPGe detector for the GERDA project*,
I. Abt, A. Caldwell, D. Gutknecht, K. Kröninger, M. Lampert, X. Liu, B. Majorovits, D. Quirion,
F. Stelzer, and P. Wendling,
Nucl. Instr. Methods **A577** (2007) 574.
35. *A comparison of low-level γ -spectrometers within the GERDA collaboration*,
D. Budjas, M. Heisel, M. Hult, A. Klimenko, M. Laubenstein, P. Lindahl, H. Simgen, A. Smolnikov,
C. Tomei, and S. Vasiliev,
In Proc. *Topical Workshop on Low Radioactivity Techniques: LRT 2006*,
AIP Conference Procs. **897** (2007) 26, Aussois, France. 1-4 Oct. 2006, AIP, 2007.
36. *Feasibility study of the observation of the neutrino accompanied double beta-decay of ^{76}Ge to the 0^+ -excited state of ^{76}Se using segmented germanium detectors*,
K. Kröninger, L. Pandola, and V. I. Tretyak,
Ukr. J. of Physics **52** (2007) 1036.
37. *The GERmanium Detector Array* , GERDA,
K. Kröninger,
In Proc. *J. Phys.: Conf. Ser.* ,
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38. *The GERmanium Detector Array read-out: Status and developments*,
C. Cattadori, O. Chkvorets, M. Junker, K. Kroeninger, L. Pandola, A. Pullia, V. Re, C. Tomei, C. Ur,
and F. Zocca,
In Proc. *Nucl. Instr. Methods A*,
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39. *Identification of photons in double beta-decay experiments using segmented germanium detectors - studies with a GERDA Phase II prototype detector*,
I. Abt, A. Caldwell, K. Kröninger, J. Liu, X. Liu, and B. Majorovits,
Nucl. Instr. Methods **A583** (2007) 332.
40. *Liquid argon as active shield and coolant for bare germanium detectors – A novel background suppression method for the GERDA $0\nu\beta\beta$ experiment*,
Peter Peiffer,
PhD thesis, Max Planck Institut für Kernphysik, Heidelberg, July 2007.
41. *Low-Level Gammaspektroskopie im Rahmen des GERDA-Experimentes zur Suche nach dem neutrinolesen Doppel-Betazerfall in ^{76}Ge* ,
Werner Maneschg,
Diploma thesis, U. Heidelberg, July 2007.
42. *Monte Carlo evaluation of the muon-induced background in the GERDA double β decay experiment*,

- L. Pandola, M. Bauer, K. Kröninger, X. Liu, C. Tomei, S. Belogurov, D. Franco, A. Klimenko, and M. Knapp,
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43. *Muon-induced signals and isotope production in the GERDA experiment*,
 L. Pandola,
 In Proc. *Topical Workshop on Low Radioactivity Techniques: LRT 2006*,
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44. *A novel low background cryogenic detector for radon in gas*,
 M. Wojcik and G. Zuzel,
 In Proc. *Topical Workshop on Low Radioactivity Techniques: LRT 2006*,
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45. *Operation of bare HP-Germanium detectors in liquid argon (LAr)*,
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46. *Photon identification with segmented germanium detectors in low radiation environments*,
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47. *Prompte Gamma Aktivierungsanalyse an ^{76}Ge* ,
 Georg Meierhofer,
 Diploma thesis, Physikalisches Institut, Universität Tübingen, December 2007.
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 Tina Pollmann,
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 I. Abt, A. Caldwell, K. Kröninger, J. Liu, X. Liu, and B. Majorovits,
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50. *Techniques to distinguish between electron and photon induced events using segmented germanium detectors*,
 Kevin Kröninger,
 PhD thesis, TU München, Max Planck Institut für Physik, München, July 2007.
51. *GERDA. Germanium detector array. Search for neutrino-less $\beta\beta$ Decay of ^{76}Ge* ,
 A. Bettini,
Nucl. Phys. **B168** (2007) 67.
52. *Ultrapure gases - from the production plant to the laboratory*,
 H. Simgen and G. Zuzel,
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53. *An intercomparison of Monte Carlo codes used in γ -ray spectrometry*,
 T. Vidmar, I. Aubineau-Laniece, M.J. Anagnostakis, D. Arnold, R. Brettner-Messler, D. Budjas, M. Capogni, M.S. Dias, L.E. De Geer, A. Fazio, J. Gasparro, M. Hult, S. Hurtado, M.J. Vargas, M. Laubenstein, K.B. Lee, Y.K. Lee, M.C. Lepy, F.J. Maringer, V.M. Peyres, M. Mille, M. Morales, S. Nour, R. Plenteda, M.P.R. Montero, O. Sima, C. Tomei, and G. Vidmar,
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54. *Interlockkontrolle und Schleusensteuerung des GERDA-Experiments*,
 M. Kästle,
 Diploma thesis, FH Augsburg, March 2008.
55. *Measurements of extremely low radioactivity levels in stainless steel for GERDA*,
 W. Maneschg, M. Laubenstein, D. Budjas, W. Hampel, G. Heusser, K.T. Knöpfle, B. Schwingenheuer,

- and H. Simgen,
Nucl. Instr. Methods **A593** (2008) 448.
56. *Neutron- and muon-induced background in underground physics experiments*,
 V.A. Kudryavtsev, L. Pandola, and V. Tomasello,
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57. *Neutron capture cross section of Ge-76*,
 J. Marganiec, I. Dillmann, C.D. Pardo, P. Grabmayr, and F. Kappeler,
In Proc. J. Phys. G: Nucl. Part. Phys. ,
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58. *Neutron interactions as seen by a segmented germanium detector*,
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59. *Operation of bare HPGe detectors in LAr/LN₂ for the GERDA experiment*,
 Marik Barnabe Heider, Carla Cattadore, Oleg Chkvorets, Assunta di Vacri, Konstantin Gusev, Stefan Schönert, and Mark Shirchenko,
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61. *Search for Double Beta Decay with HPGe Detectors at the Gran Sasso Underground Laboratory*,
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 I. Abt, A. Caldwell, K. Kroninger, J. Liu, X. Liu, and B. Majorovits,
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63. *Analysis of the Rn-222 concentration in argon and a purification technique for gaseous and liquid argon*,
 H. Simgen and G. Zuzel,
In Proc. Appl. Radiat. Isot.,
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64. *Automatisierung der Messprozesse des GALATEA Teststandes* ,
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65. *Characterization of a Broad Energy Germanium detector through advanced pulse shape analysis techniques for the GERDA double-beta decay experiment* ,
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66. *Cosmogenic radionuclides in metals as indicator for sea level exposure history*,
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67. *Design, Simulation und Aufbau des Gerda-Myonvetos*,
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68. *Development of Segmented Germanium Detectors for Neutrinoless Double Beta Decay Experiments*,
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70. *γ -ray spectrometry of ultra low levels of radioactivity within the material screening program for the*

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