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# GERDA

## the GERmanium Detector Array



### List of Publications

#### other printed conference contributions

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. B* **145** (2005) 242, 2005.
3. *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.
4. *Single-transistor option for high-resolution  $\gamma$ -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.
5. *A fast VLSI preamplifier for segmented HPGe  $\gamma$ -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.
6. *GERDA: a germanium detector array to search for neutrinoless double  $\beta$  decay,*  
E. Bellotti,  
*J. Phys.: Conf. Ser.* **39** (2006) 338.
7. *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.

8. *GERmanium detector array, GERDA*,  
X. Liu,  
In Proc. *Phys. Scr.* ,  
*Phys. Scr.* **T127** (2006) 46, 2006.
9. *Investigation of double- $\beta$  decay at the Institute of Theoretical and Experimental Physics (ITEP, Moscow)*,  
O.Ya. Zeldovich and I.V. Kirpichnikov,  
*Phys. Atom. Nucl.* **69** (2006) 1657.
10. *Low-level techniques applied in BOREXINO and GERDA*,  
G. Heusser, H. Simgen, and G. Zuzel,  
*J. Phys.: Conf. Ser.* **39** (2006) .
11. *Low-noise amplification of  $\gamma$ -ray detector signals in hostile environments*,  
A. Pullia, F. Zocca, and C. Cattadori,  
*IEEE Transactions on Nuclear Science* **53** (2006) 1744.
12. *Status of the Germanium Detector Array (GERDA) for the search of neutrinoless  $\beta\beta$  decays of  $^{76}\text{Ge}$  at LNGS*,  
S. Schönert,  
*Prog. Part. and Nucl. Phys.* **57** (2006) 241.
13. *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.* ,  
*Prog. Part. and Nucl. Phys.* **57** (2006) 241, 2006.
14. *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. Belegurov, 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. Gangapshev, 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,  
In Proc. *Phys. Atom. Nucl.* ,  
*Phys. Atom. Nucl.* **69** (2006) 2101, 2006.
15. *Status of the Germanium detector array (GERDA) in the search of neutrinoless  $\beta\beta$  decays of  $^{76}\text{Ge}$  at LNGS*,  
S. Schönert, I. Abt, M. Altmann, A.M. Bakalyarov, I. Barabanov, C. Bauer, M. Bauer, E. Bellotti, S. Belegurov, 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. Gangapshev, 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. WeiBhaar, M. Wojcik, E. Yanovich, J. Yurkowski, S.V. Zhukov, F. Zocca, and G. Zuzel,  
Phys. Atom. Nucl. **69** (2006) 2101.
16. *GERDA, a GERmanium detector array for the search for neutrinoless  $\beta\beta$  decay in  $^{76}\text{Ge}$* ,  
L. Pandola and C. Tomei,  
In Proc. *Particles and Nuclei: Seventeenth International Conference on Particles and Nuclei*,  
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17. *Towards pulse shape analysis for the GERDA experiment*,  
K. Kroninger,  
In Proc. *Prog. Part. and Nucl. Phys.* ,  
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18. *Ultrapure gases for GERDA*,  
H. Simgen,  
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19. *Behavior of the  $^{222}\text{Rn}$  daughters on copper surfaces during cleaning*,  
M. Wojcik and G. Zuzel,  
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20. *A comparison of low-level  $\gamma$ -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.
21. *The GERmanium Detector Array* , GERDA,  
K. Kröninger,  
In Proc. *J. Phys.: Conf. Ser.* ,  
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22. *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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23. *Muon-induced signals and isotope production in the GERDA experiment*,  
L. Pandola,  
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24. *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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25. *Operation of bare HP-Germanium detectors in liquid argon (LAr)*,  
P. Peiffer, D. Motta, S. Schönert, and H. Simgen,  
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26. *Photon identification with segmented germanium detectors in low radiation environments*,  
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27. *Ultrapure gases - from the production plant to the laboratory*,  
H. Simgen and G. Zuzel,  
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28. *An intercomparison of Monte Carlo codes used in  $\gamma$ -ray spectrometry*,  
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29. *Neutron capture cross section of Ge-76*,  
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30. *Operation of bare HPGe detectors in LAr/LN<sub>2</sub> for the GERDA experiment*,  
Marik Barnabe Heider, Carla Cattadore, Oleg Chkvorets, Assunta di Vacri, Konstantin Gusev, Stefan Schönert, and Mark Shirchenko,  
In Proc. *J. Phys.: Conf. Ser.* ,  
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31. *Analysis of the Rn-222 concentration in argon and a purification technique for gaseous and liquid argon*,  
H. Simgen and G. Zuzel,  
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32.  *$\gamma$ -ray spectrometry of ultra low levels of radioactivity within the material screening program for the GERDA experiment*,  
D. Budjas, 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,  
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33. *High sensitivity radon emanation measurements*,  
G. Zuzel and H. Simgen,  
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34. *Optimisation of the MC-model of a p-type Ge-spectrometer for the purpose of efficiency determination*,  
D. Budjas, M. Heisel, W. Maneschg, and H. Simgen,  
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36. *The calibration system of the GERDA muon veto Cherenkov detector*,  
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37. *Cryogenic Performance of a Low-Noise JFET-CMOS Preamplifier for HPGe Detectors*,  
A. Pullia, F. Zocca, S. Riboldi, D. Budjas, A. D'Andragora, and C. Cattadori,  
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38. *Segmented HPGe detectors for the search of neutrinoless double  $\beta$ -decay*,  
B. Majorovits,  
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39. *The MGDO software library for data analysis in Ge neutrinoless double-beta decay experiments*,  
M. Agostini, J. A. Detwiler, P. Finnerty, K. Krninger, D. Lenz, J. Liu, M. G. Marino, R. Martin, K. D. Nguyen, L. Pandola, A. G. Schubert, O. Volynets, and P. Zavarise,  
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40. *Procurement, production and testing of BEGe detectors depleted in  $^{76}\text{Ge}$* ,  
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Bernhard Schwingenheuer,  
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42. *GERDA Status Report: Results from Commissioning,*  
Carla Cattadori and for the GERDA collaboration,  
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43. *LARGE R&D for active background suppression in GERDA,*  
M. Agostini, M. Barnabe-Heider, D. Budjáš, C. Cattadori, A. D'Andragora, A. Gangapshev, K. Gusev,  
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44. *Tools for advanced data analysis in the GERDA neutrinoless double beta decay experiment,*  
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In Proc. *Journal of Physics: Conference Series* ,  
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45. *Characterization of BEGe detectors in the HADES underground laboratory,*  
Erica Andreotti,  
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46. *SEARCHES FOR NEUTRINOLESS DOUBLE BETA DECAY - RESULTS FROM PHASE I OF THE GERDA EXPERIMENT,*  
Grzegorz. Zuzel,  
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47. *Current experiments on  $0\nu\beta\beta$  in Germanium GERDA and Majorana,*  
K. v. Sturm for the GERDA collaboration,  
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48. *Determination of dead-layer variation in HPGe detectors,*  
E. Andreotti, M. Hult, G. Marissens, G. Lutter, A. Garfagnini, S. Hemmer, and K. von Sturm,  
Applied Radiation and Isotopes **87** (2014) 331, Antwerp, Belgium, 2014.
49. *GERDA - a new neutrinoless double beta experiment using  $^{76}\text{Ge}$ ,*  
Georg Meierhofer for the GERDA collaboration,  
In Proc. *INPC2010*,  
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50. *The GERDA experiment: results and perspectives,*  
C. Macolino,  
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51. *GERDA: Recent results and future plans,*  
Bjoern. Lehnert,  
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52. *Results on neutrinoless double-beta decay from GERDA Phase I,*  
Carla Macolino,  
*Mod. Phys. Lett. A***29** (2014) 1430001, 2014.
53. *Search for neutrinoless double beta decay with the GERDA experiment,*  
C. Macolino for the GERDA collaboration,  
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54. *Status of double beta decay experiments using isotopes other than  $^{136}\text{Xe}$ ,*  
Luciano Pandola,  
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- Physics of the Dark Universe **4** (2014) 17, Asilomar, 2014.
55. *Upgrade of the GERDA Experiment*,  
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56. *Limit on neutrinoless double beta decay of  $^{76}\text{Ge}$  by GERDA*,  
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57. *Phase II upgrade of the GERDA experiment for the search of neutrinoless double beta decay*,  
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