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GERDA

the GERmanium Detector Array

List of Publications

publications and conference contributions printed in refereed journals

1. *Low ^{222}Rn nitrogen gas generator for ultra-low background counting systems*,
M. Wojcik and G. Zuzel,
Nucl. Instr. Methods **A539** (2005) 427.

2. *Operation of bare HP-Germanium detectors in liquid argon (LAr)*,
P. Peiffer, D. Motta, S. Schoenert, and H. Simgen,
Nucl. Phys. **B143** (2005) 511.

3. *Terra Incognita I*,
M. Lindner and S. Schonert,
Nucl. Phys. **B145** (2005) 361.

4. GERDA*: A new Ge-76 double β decay experiment at Gran Sasso*,
H. Simgen,
Nucl. Phys. **B143** (2005) 567.

5. *The ^{76}Ge double-β decay experiment* GERDA *at LNGS*,
M. Wojcik,
Acta Physica Polonica B**37** (2006) 1923.

6. *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.

7. *Geant4 and its validation*,
K. Amako, S. Guatelli, V. Ivanchencko, M. Maire, B. Mascialino, K. Murakami, L. Pandola, S. Parlati, M.G. Pia, M. Piergentili, T. Sasaki, and L. Urban,
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8. *MaGe: a Monte Carlo framework for the Gerda and Majorana double β decay experiments*,
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9. *MUCR42BETA: muon capture rates for double-β decay*,
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10. *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.

11. *Signal discovery in sparse spectra: a bayesian analysis*,
A. Caldwell and K. Kroninger,
Phys. Rev. D **74** (2006) 92003.

12. *Status and Perspectives of Neutrino Physics*,
A. Bettini,
Nucl. Phys. **B151** (2006) 270.

13. *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. Kroninger, X. Liu, B. Majorovits, L. Pandola, and C. Tomei,
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14. *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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15. *Characterization of the first true coaxial 18-fold segmented n-type prototype HPGe detector for the* GERDA *project*,
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16. *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,
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17. *Identification of photons in double beta-decay experiments using segmented germanium detectors - studies with a* GERDA *Phase II prototype detector*,
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18. *Monte Carlo evaluation of the muon-induced background in the* GERDA *double β decay experiment*,
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19. *Pulse shapes from electron and photon induced events in segmented high-purity germanium detectors*,
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21. *Measurements of extremely low radioactivity levels in stainless steel for* GERDA,
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22. *Neutron- and muon-induced background in underground physics experiments*,
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23. *Neutron interactions as seen by a segmented germanium detector*,
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24. *Pulse shape analysis of scintillation signals from pure and xenon-doped liquid argon for radioactive background identification*,
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25. *Test of pulse shape analysis using single Compton scattering events*,
I. Abt, A. Caldwell, K. Kroninger, J. Liu, X. Liu, and B. Majorovits,
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26. *Cosmogenic radionuclides in metals as indicator for sea level exposure history*,
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27. *Fast scintillation light from CaMoO4 crystals*,
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28. *Neutron capture cross sections of Ge-74, Ge-76, and As-75 at 25 keV*,
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31. *Pulse shape discrimination studies with a Broad-Energy Germanium detector for signal identification and background suppression in the* GERDA *double β decay experiment*,
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35. *Conversion of experimental half-life to effective electron neutrino mass in $0\nu\beta\beta$ decay*,
A. Smolnikov and P. Grabmayr,
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37. *Operation and performance of a bare broad-energy germanium detector in liquid argon*,
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M. Agostini, E. Bellotti, R. Brugnera, C. M. Cattadori, A. D'Andragora, A. di Vacri, A. Garfagnini, M. Laubenstein, L. Pandola, and C. A. Ur,
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Jozsef Janicsko Csathy, Hossein Aghaei Khozani, Allen Caldwell, Xian Liu, and Bela Majorovits,
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M. Agostini, L. Pandola, P. Zavarise, and O. Volynets,
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50. *The GERDA experiment for the search of* $0\nu\beta\beta$ *decay in* ^{76}*Ge*,
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