

## A. Pocar - Refereed publications and preprints

### EXO and EXO-related papers

- (EXO collaboration) D. Leonard et al., “Systematic study of trace radioactive impurities in candidate construction materials for EXO”, Nucl. Instr. Meth. A **591**, 490 (2008); arXiv: 0709.4524v1.
- P. Fierlinger et al., “A microfabricated sensor for thin dielectric layers”, Rev. Sci. Instr. **79**, 045101 (2008); arXiv:0706.0540v2.
- (EXO collaboration) M. Green et al., “Observation of single collisionally cooled trapped ions in a buffer gas”, Phys. Rev. A **76**, 023404 (2007); arXiv:physics/0702122v2.
- (EXO collaboration) F. LePort, A. Pocar et al., “A liquid xenon ionization chamber in an all-fluoropolymer vessel”, Nucl. Instr. Meth. A **578**, 409 (2007); arXiv:physics/0611183v1.
- (EXO collaboration) B. Flatt et al., “A linear RFQ ion trap for the Enriched Xenon Observatory”, Nucl. Instr. Meth. A **578**, 399 (2007); arXiv:0704.1646v1.

### Borexino and Borexino-related papers

- (Borexino collaboration) G. Bellini et al., “Measurement of the solar  $^8\text{B}$  neutrino flux with 246 live days of Borexino and observation of the MSW vacuum-matter transition”, submitted to Phys. Rev. Lett.; arXiv:0808.2868v1.
- (Borexino collaboration) C. Alimonti et al., “The Borexino detector at the Laboratori Nazionali del Gran Sasso”, submitted to Nucl. Instr. Meth. A; arXiv:0806.2400v1.
- (Borexino collaboration) C. Arpesella et al., “Direct Measurement of the  $^7\text{Be}$  Solar Neutrino Flux with 192 Days of Borexino Data”, Phys. Rev. Lett. **101**, 091302 (2008), arXiv:0805.3843v2.
- J. Benziger et al., “A scintillator purification system for the Borexino solar neutrino experiment”, to appear in Nucl. Instr. Meth. A **587**, 277 (2008); arXiv:0709.1503v2.
- (Borexino collaboration) H. Back et al., “Phenylxylethane (PXE): a high-density, high-flashpoint organic liquid scintillator low-energy neutrino experiments”, Nucl. Instr. and Meth. A **585**, 48 (2008); arXiv:physics/0408032v1.
- (Borexino collaboration) C. Arpesella et al., “First real time detection of  $^7\text{Be}$  solar neutrinos by Borexino”, Phys. Lett. B **658**, 101 (2008); arXiv:0708.2251v2.
- (Borexino collaboration) H. Back et al., “Pulse-Shape discrimination with the Counting Test Facility”, Nucl. Instr. Meth. A **584**, 98 (2008); arXiv:0705.0239v1.
- J. Benziger et al., “The nylon scintillator containment vessel for the Borexino solar neutrino experiment”, Nucl. Instr. Meth. A **582**, 509 (2007); arXiv:physics/0702162v1.
- (Borexino collaboration) M. Balata et al., “Search for electron antineutrino interactions with the Borexino Counting Test Facility at Gran Sasso”, Eur. Phys. J. C **47**, 12 (2006); arXiv:hep-ph/0602027v2.
- (Borexino collaboration) H. Back et al., “CNO and pep neutrino spectroscopy in Borexino: Measurement of the deep-underground production of cosmogenic  $^{11}\text{C}$  in an organic liquid scintillator”, Phys. Rev. C **74**, 045805 (2006); arXiv:hep-ex/0601035v4.
- C. Galbiati, A. Pocar, et al., “Cosmogenic  $^{11}\text{C}$  production and sensitivity of organic scintillator detectors to pep and CNO neutrinos”, Phys. Rev. C **71**, 055805 (2005); arXiv:hep-ph/0411002v2.
- (Borexino collaboration) H. Back et al., “New experimental limits on violations of the Pauli exclusion principle obtained with the Borexino Counting Test Facility”, Eur. Phys. J. C **37**, 422 (2004); arXiv:hep-ph/0406252v1.
- (Borexino collaboration) H. Back et al., “New Experimental Limits on Heavy Neutrino Mixing in  $^8\text{B}$ -Decay Obtained with the Borexino Counting Test Facility”, JETP. Lett. B **78**, 261 (2003).
- (Borexino collaboration) H. Back et al., “New limits on nucleon decays into invisible channels with the BOREXINO counting test facility”, Phys. Lett. B **563**, 23 (2003); arXiv:hep-ex/0302002v2.
- (Borexino collaboration) H. Back et al., “Study of neutrino electromagnetic properties with the prototype of the Borexino detector”, Phys. Lett. B **563**, 35 (2003).
- (Borexino collaboration) C. Arpesella et al., “Measurements of extremely low radioactivity levels in BOREXINO”, Astropart. Phys. **18**, 1 (2002); arXiv:hep-ex/0109031v1.
- (Borexino collaboration) H. Back et al., “Search for electron decay mode  $e \rightarrow \gamma + \nu$  with prototype Borexino detector”, Phys. Lett. B **525**, 29 (2002). (Also refer to: (Borexino collaboration) H. Back et al., “Response to a critique of the Borexino result in “A new experimental limit for the stability of

*the electron" by H.V. Klapdor-Kleingrothaus, I.V. Krivosheina and I.V. Titkova", submitted to Phys. Lett. B; arXiv:hep-ex/0703044v3).*

- (Borexino collaboration) G. Alimonti et al., "*Science and technology of Borexino: a real-time detector for low energy solar neutrinos*", *Astropart. Phys.* **16**, 205 (2002); arXiv:hep-ex/0012030v1.

other

- D. Acosta-Kane et al., "*Discovery of underground argon with low level of radioactive  $^{39}\text{Ar}$  and possible applications to WIMP dark matter detectors*", *Nucl. Instr. Meth. A* **587**, 46 (2008).
- W.B. Atwood et al., "*Beam test of gamma-ray large area space telescope components*", *Nucl. Instr. Meth. A* **446**, 444 (2000); arXiv:physics/9905002v1.