

**Aldo Ianni**  
Senior Staff Researcher  
I.N.F.N. Gran Sasso Laboratory  
S.S. 17bis km 18+910  
67010 Assergi (AQ)  
Italy

Phone: +39 0862 437 482  
Fax: +39 0862 437 570  
Email: [aldo.ianni@lngs.infn.it](mailto:aldo.ianni@lngs.infn.it)

Born: Feb 24th 1968 in Teramo, Italy

### **EDUCATION**

Ph.D. in Physics, University of L'Aquila (Italy), 1999  
Laurea in Physics with full honors, University of Perugia (Italy), 1992

### **RESEARCH INTERESTS**

Solar Neutrinos  
Neutrinos from Supernovae  
Geo-neutrinos  
Dark Matter  
Neutrinoless double beta decay

### **EMPLOYMENT HISTORY**

Senior Staff Researcher, Gran Sasso Laboratory, Dec 2008  
Staff Researcher, Gran Sasso Laboratory, Dec 2001  
Research Associate, University of Milano, Jun 2001 – Dec 2001  
Research Associate/Lecturer, Princeton University, Feb 1999 – May 2001

### **TEACHING**

Fall 2007, Phys. Dept. Princeton University, PHY103(Mechanics)  
PhD course on Neutrino Physics, Phys. Dept, University of Milano, 2005-2007  
Fall 2000, Phys. Dept. Princeton University, PHY101(Mechanics)  
Princeton-LNGS Summer School, editions 2004-2008, Special Relativity and Modern Physics

### RECENT INVITED TALKS

“Detection of neutrinos from a core collapse supernova”, XLVII International Winter Meeting on Nuclear Physics, Bormio, Jan 2009

“Detection of supernova neutrinos”, ILIAS WP2 Meeting, Pisa, Nov 2008

“Observation of neutrinos from natural sources”, IFAE, Bologna, 2008

“Detection of solar neutrinos with Borexino”, La Thuille,

“Understanding the sun through neutrinos”, 5th Italian-Sino Workshop on relativistic astrophysics, Taipei, May 2008.

“Understanding the Sun: Borexino”, Nuclear Physics in Astrophysics IV, LNF Frascati, Jun 8-12, 2009.

“Nuclear Physics for geoneutrinos”, Workshop towards neutrino technologies, ICTP Trieste, July 13-17, 2009.

### SELECTED PUBLICATIONS

- G. Bellini and A. Ianni, “Borexino homes in on neutrino oscillations”, **CERN Cour.49N5:13-15,2009.**
- Borexino collaboration, “Direct measurement of the  $^7\text{Be}$  solar neutrino flux with 192 days of Borexino data”, **Phys. Rev. Lett. 101, 091302**
- Borexino collaboration, “First real time detection of  $^7\text{Be}$  solar neutrinos by Borexino”, **Phys. Lett. B 658 (2008) 101-108**
- Borexino collaboration, “The Borexino detector at Laboratori Nazionali del Gran Sasso”, **NIM A 600 (2009) 568-593.**
- Ianni, D. Montanino e F. Villante, *How to observe  $^8\text{B}$  solar neutrinos in liquid scintillator detectors*, **Phys. Lett. B627 (2005) 38**
- G. Galbiati, A. Pocar, D. Franco, A. Ianni, L. Cadonati e S. Schoenert, *Cosmogenic  $^{11}\text{C}$  production and sensitivity of organic scintillator detectors to pep and CNO neutrinos*, **Phys. Rev. C71 (2005) 055805.**
- M.L. Costantini, A. Ianni e F. Vissani, *SN1987A and the properties of the neutrino burst*, **Phys. Rev. D70 (2004) 043006.**
- A. Ianni, *Maximum likelihood analysis of the first KamLAND*, **J. Phys. G29 (2003) 2107.**
- A. Ianni, D. Montanino e G. Scioscia, *Test of non-standard properties with the Borexino source experiments*, **Astrop. Phys. 10 (1999), 331.**