

Short Curriculum Vitae et studiorum of Dr. Pierluigi Belli

PERSONAL INFORMATION

Name: *Pierluigi Belli*
Place / Date of Birth: Monterotondo (Roma) / 26 March 1963
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PRESENT EMPLOYMENT

from Jan. 2009: Director of Research INFN at Roma Tor Vergata section.

PRECEDENT EMPLOYMENTS

Jul. 1988: INFN Collaborator by competition at INFN *Tor Vergata* for the research group of Fundamental Physics without the use of accelerators.
Jan. 1989: Researcher of INFN Roma2 section.
March 2000: First Researcher at INFN Roma2, then Tor Vergata, section.

EDUCATIONAL TRAINING

1981: *High School Diploma* confirmed by “Liceo Scientifico *G. Peano*” of Monterotondo with final grade 60/60.
25 Sept. 1986: *Degree in Physics* with 110/110 cum laude at Physics Dept. of Università di Roma “La Sapienza”.
Jul. 1987: Position by competition for the third PhD cycle in Physics by Università di Roma “La Sapienza”.
28 Oct. 1991: PhD in Physics.

GRANTS and AWARDS

Jan. 1986: Award “Borsa di studio Enrico Persico” of “Accademia Nazionale dei Lincei”, for students of Physics in the Rome Universities.
Sept. 1993: Scientific activity award by Italian Society of Physics (SIF).
Sept. 1999: SIF prize for one of the best presentations in the Section 1 “Fisica Nucleare e Subnucleare” of the 85° SIF National Congress in Pavia.

INSTITUTIONAL RESPONSABILITIES

Jul. 2007-June 2015: Coordinator of Roma Tor Vergata in the National Scientific Committee 2 (CSN2) of INFN.
June 2008-April 2015: Observer of CSN2 in the National Scientific Committee 5 of INFN.
from July 2010: GLIMOS (Group Leader In Matter Of Safety) of DAMA experiment at LNGS.
01/2011 – 12/2017: Local responsible of DAMA experiment in Roma Tor Vergata.
from 06/2017: National co-responsible of DAMA experiment.
2009-2011: Member of the biennial committee for giving Research Fellow at INFN Roma Tor Vergata.
2010: Member of the committee for the national selection of INFN for 19 First Researchers.

MISCELLANEOUS

- He is referee of many international reviews and journals, as Physical Review Letters, Physical Review D, Physical Review C, Nucl. Instrum and Methods, Applied Radiation and Isotopes, Nucl. Phys. A, Eur. Phys. J. A,C, JCAP, Phys. Lett. B, MDPI journals as Universe, Symmetry, Crystals...
- He is in the editorial board of Universe and Crystals journals of MDPI. He was Editor of a Special Issue on International Journal of Modern Physics A (2017): “Low Background Techniques”. He was in the scientific committee of several conferences, as DM, IDM, LDMA17, Dark Workshop al GGI, etc.
- He fulfills many didactic tasks in the Physics and Biology Departments of “Tor Vergata” University.
- He was President of the committee for PhD assessment at GSSI.
- He gives many seminars and lectures for students of the last years of Physics and of the Phd courses in many italian and foreign Universities.
- He attends more than 100 interntional workshops and conferences, always as speaker. In many of them he is invited.
- He gives many seminars worldwide, as for example at *Caltech, Cfa Harvard, FNAL - Fermilab, SLAC, LBNL - Berkeley, Brookhaven National Laboratory, Imperial College London, University of Copenhagen, Université Libre de Bruxelles, CP3 Origins-Odense, IISER-Chandigarh, Punjab University, IIT-Ropar, IIT-Kharagpur, University of Heidelberg, SISSA Trieste, Seoul University, UCL Louvain-la-Neuve, University of Jingtangshan, Mesoamerican Centre for Theoretical Physics, Università di Pisa, Università di Bologna, etc.*

PUBLICATIONS

- He is co-author of more than 250 publications on reviews (most of them with few authors) and many others (>100) publications on Proceedings volumes.
- He has **41 (82)** publications with more than **100 (50)** cites (SPIRES). The relative **Hirsch index** is either **63** (SPIRES) or **69** (SCOPUS).

RESEARCH ACTIVITY

He has carried out his experimental research – dealing with design and construction of the experimental set-ups, the data collection and data analysis – mostly in the field of **Nuclear and Subnuclear Physics**. These activities were carried out – as well as at INFN Tor Vergata (for example, the *Xelidon* experiment that at the end of '80 developed new liquid Xenon detectors) – at *LNF* with the beam of monochromatic and polarized gammas (*LADON* for Nuclear Physics experiments) and at the Gran Sasso National Laboratory (*LNGS*) of INFN. In particular, with regard to the activity at LNGS he attends the measurement of the solar neutrinos flux: *GALLEX* experiment (that was the first experiment – already at the beginning of '90 – to measure the most important pp neutrinos) and its continuation *GNO* experiment. Moreover, since 1990 to date, he is a member of the international collaboration *DAMA* (Rome Tor Vergata, Rome, LNGS, IHEP-Beijing and for some activities ENEA-Frascati, INR-Kiev and IIT-Ropar) at LNGS, which has as its primary goal the development and the use of **high radio-purity scintillators** for the study and for the investigation of various rare processes, such as the study of the candidate particles as **dark matter of the Universe, double beta decay** processes in many isotopes, **rare nuclear processes,**

search for exotic matter, possible processes that do not conserve the electric charge, nucleon, di-nucleon and tri-nucleon decay into invisible channels, possible PEP violating processes, investigation of solar axions, ... The DAMA experiment has obtained many competitive results and, in particular, more than 200 papers on international reviews have been produced. Moreover, he has also worked on the development of innovative and peculiar detectors, as the possible use of anisotropic scintillators in the study of directionality induced by dark matter particles.