Prof. Marco Pallavicini

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Current Positions and Scientific Roles

- Full Professor of Fundamental Interactions - Univ. di Genova;
- Member of Executive Board of INFN;
- Chair of EGO Council - European Gravitation Observatory;
- Member of LBNC - Long Base Line Neutrino Committe @ FNAL;
- Member of the STAC of Km3Net;
- Member of the ApPEC Scientific Advisory Committee (SAC);
- President of "Festival della Scienza" (www.festivalscienza.it)) one of the largest popular science festivals in the world

Past roles

- Chair of Astroparticle Physics Commission II at INFN [2014-20]
- Chair of the Borexino Scientific Steering Committee 2004-2011
- Member of the CUORE (LNGS) Executive Board 2010-2014
- INFN Genova Local Coordinator Commission 2 - 2009-2014
- Member of the INFN Commission 2 from 2009-2014
- Deputy Director of the Department of Physics - Genova;

Past positions and studies

- Associate Professor 2005-2015 (Università di Genova)
- INFN Researcher in Genova 1998-2005
- Post doc at Fermilab and SLAC 1997-1998
- Post doc and Guest scientist at Fermilab 1995-1996
- PhD at University of Genova - 1995
- Graduate Student 1991-1994 - Genova and Fermilab, USA

Managed fundings

Project	Period	Funding Agency	Amount (k€)
BOREXino	2004-2014	INFN	1850
Cuoricino	2005-2008	INFN	270
PRIN 2007	2007-2009	MIUR	270
CUORE	2008-2014	INFN	550
CUORE	2009-2011	National Instruments	30
SOX	2013-2017	ERC Ideas FP7	3461
BOREX-xenon	2012-2015	MIUR	231
Total			**6662**

Pubblications
Data from inspire.net
23 Mar. 2020

- **Citeable papers: 377**
- **h-index: 68**
- **Citations: total 17615**

Conferences
Selected list of recent talks

- CNPP 2017, Catania, “Status of the SOX project”
- EPS 2017, Venezia, “Sterile neutrino search with the SOX project”
- Neutrino 2016, London, “Solar ν detectors are sterile ν hunters”
- NuPhys 2015, London, 2015, “Source and Reactor experiments for the search of Sterile νs”.
- CRIS2015, Gallipoli, 2015, “The INFN activity for cosmic rays in space”.
- Fermilab Meeting on Large Neutrino Infrastructures, 2015, "SEARCH for sterile νs with sources and reactors”.
- RICAP2014, Noto (Italia), 2014 "First real time measurement of pp solar neutrinos”
- ICNFP2014, Crete (Grecia), 2014 "Solar and sterile neutrinos”
- NuPhys2013, London, 2013 "Solar neutrinos: experimental review and prospectives”
- Neutrino Telescopes, 2013, "Short Distance Neutrino Oscillations with Borexino”
- Lomonosov Conference, Moscow, 2013 "Solar neutrinos: what we have learned in last 10 years”
- Neutrino 2012, Kyoto, Giappone "Results from Borexino”

A brief summary of my scientfiic activity.

I started my career in 1990 at Fermilab, working on charmonium physics at the FNAL anti-proton accumulator. I have developed then skills in data analysis, detector construction and operation, and data acquisition. I later joined BaBar, working on the first innovative reconstruction program developed in C++ and working on Geant-4. Since the late 90’s I have joined Borexino, the main project of my career, in which I covered several roles of increasing responsibility (data acquision and electronics responsible, chair of the scientific committee, spokeperson). I have also worked in CUORE, being member of the Exec Board until I became Chair of the INFN CSN2, and I have worked on the develepment of EUSO, a very innovative project for the observation of high energy cosmic rays from space which was unfortunately not selected by ESA.
In the recent years I have been the P.I. of SOX, an ERC funded project for the search of sterile neutrinos with Borexino. Very unfortunate problems in the production plant in Russia have prevented the completion of the project.
My current interests are on liquid argon experiments, both for the search of Dark Matter (Darkside-20k) and the precision study of neutrino oscillations at Fermilab with DUNE.

I have been the Chair of the Astroparticle Physics Commission at INFN, which manages fundings for all Astroparticle and Neutrino Physics activities in Italy, from 2014 to 2020. About 12 M€ each year are distributed to about 40 experiments and R&D activities by the commission, following review report and internal discussion. Since Feb. 2020, I am member of the INFN Executive Board, the top governing body of the Institute.

Teaching and science popularisation

I teach on a regular basis courses in General Physics (Mechanics and Thermodynamics or Electrodynamics, depending of the year), Astroparticle Physics and Particle Physics to undergraduated students in Genova. I also teach Astroparticle Physics to graduate students.
I have been supervisor of 19 undergraduate thesis and also 14 PhD thesis in Genova, Torino, Paris, Milano.

I devote a relevant amount of time to scientific popularisation and dissemination. Besides many seminars in schools and to the general public, my main activity in this field is to be the President of the Festival della Scienza di Genova, one of the largest festivals in the world, with more than 300 events each year and more than 200.000 visitors.