

Andrea Fontana

INFN researcher



Contact

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Languages

Italian mother tongue
English & French fluent
Japanese essential

Codes

Fortran, C & C++, Python,
ROOT, Fluka, Geant4,
Mcnp/McnpX, Phits, Talys

Research interests

- Applied physics, mainly in the field of computational medical physics (innovative radioisotopes, hadrontherapy, neuroscience) and civil security;
- Fundamental physics with low energy (anti)protons, with the study of exotic particles systems (at sub-nuclear, nuclear and atomic level) such as *glueballs*, hypernuclei, antihydrogen and protonium.

Employment and Education

2008-today	INFN <i>Researcher (permanent)</i> Projects: Remix, Quantep, Metrics, Pasta, MC-INFN, Aegis.	Sezione di Pavia
2005-2008	INFN <i>Researcher (fixed-term)</i> Projects: Panda, Finuda.	Sezione di Pavia
1998-2005	University of Pavia <i>Post-doc researcher</i> Projects: N2P, Euritrack, GrC, Athena.	Physics Department
1994-1997	University of Pavia <i>Ph.D. in Physics</i> Project: Obelix. Thesis: <i>Studio dell' annichilazione $\bar{p}p \rightarrow 2\pi^+ 2\pi^- \pi^0$ in volo</i>	Ph.D.
1993-1994	INFN <i>Scholarship</i> Project: Obelix.	Sezione di Pavia
1992	University of Pavia <i>M.Sc. in Physics (score 110/110 cum laude)</i> Thesis: <i>Analisi di risonanze mesoniche nell' annichilazione antiprotono-protono</i>	Degree
1987	Liceo Classico Ugo Foscolo of Pavia Baccalaureat (score 60/60)	Gymnasium

Teaching

Contract professor at the Department of Physics of the University of Pavia.

2018-today	University of Pavia Radioactivity II: <i>Nuclear Astrophysics</i> Nuclear Physics Lab II: <i>Vacuum Physics</i>	Physics Department
2008-2018	University of Pavia Radioactivity II: <i>Nuclear Astrophysics and neutrino Physics</i> Ph.D. School in Physics: <i>Data analysis and information</i>	Physics Department
1997-today	Theses Supervisor for graduation theses (12 M.Sc., 14 Diploma) and Ph.D. theses (3 doctorates).	University of Pavia

Publications

<https://scholar.google.com/citations?user=i6fSXMgAAAAJ>

Referee for Nuclear Instruments and Methods, Frontiers in Physics, Physics in Medicine and Biology, Medical physics, Radiation Oncology and Radiation & Applications.