

Curriculum Vitae of Francesco Terranova

Full Professor of Nuclear and Particle Physics
Università di Milano Bicocca, Milano, Italy
Dipartimento di Fisica “G. Occhialini”
Piazza della Scienza 3, Milano, I-20126, Milano, Italy
Email: francesco.terranova@unimib.it

I have been working in experimental neutrino physics for about 20 years giving significant contributions to the construction, running and data analysis of OPERA (observation of tau neutrino appearance in a long-baseline experiment), CUORE (search for neutrinoless double-beta decay with bolometers), and proposing the concept of “monitored neutrino beam” (NP06/ENUBET). My contributions to the field also include studies on novel neutrino sources (beta beams, neutrino factory, and tagged neutrino beams) and R&D on single-phase liquid argon TPC. I am a member of the DUNE Collaboration and technical lead of the Photon Detection System.

Main areas of research

Electroweak physics at e^+e^- colliders: **DELPHI** at LEP [1994-2001]
Hadro-production experiments: **NA56/SPY** at SPS [1995-1997]
Neutrino Oscillation Experiments: **OPERA** [2001-2011], **DUNE** [2018-present]
Neutrino-less double beta decay: **CUORE** [2012-present]
R&D's: **Liquid Argon TPC** [1997-1999]) Beta Beams, Neutrino Factories (**BENE** [2004-2008], **EUROnu** [2008-2012]), Monitored Neutrino Beams (**SCENTT** and **NP06/ENUBET** [2016-present])

Coordination of Research Projects (selection)

2000-2001 **Physics Convener** of the Trilinear Gauge Coupling working group at DELPHI
2005-2008 **Project Leader** of the magnets for the OPERA experiments
2006-2011 INFN Group Leader at LNF (Frascati) for OPERA
2006-2007 **Run Coordinator** of OPERA during the start-up of the CNGS
2007-2008 **Technical Coordinator** of the electronic detectors for the OPERA experiment
2007-2011 Member of the **Executive Board** of the OPERA Experiment
2009-2011 **Deputy Spokesperson** of the OPERA experiment
2011-2014 Member of the **Technical Board** of the CUORE experiment and coordinator of the cryostat construction during the Phase I
2014-2018 Member of the **Executive Board** of the CUORE experiment
2016-present **Principal Investigator** of the INFN SCENTT and ENUBET_2 Project
2019-present **National Representative** in the DUNE PDS Management Board
2019-present **Spokesperson** of the CERN NP06/ENUBET experiment
2021-present **Technical lead** of the DUNE Photon Detection System

Boards and Commissions of trust (selection)

2006-present reviewer for the **ERC** (EU); **CERN**, **SNSF** (Switzerland); **INFN**, **MUR** (Italy); **ANR**, **IN2P3/CNRS** (France), **DOE** (US)

2003-present reviewer for 17 international journals (e.g. Phys. Rev. Lett, Eur. Phys. J. C, Phys. Rev. D, JHEP, JINST, Phys. Rev. A, Phys. Lett. B, etc.)

2008-2011 Member of the INFN **Funding Committee** for Astroparticle Physics (Commissione Scientifica Nazionale II).

2009-2011 Ex-officio member of the **Collaboration Board** of OPERA.

2010-2012 Member of the MICE Trans-National Access (TNA) board

2014-2018 Ex-officio member of the **Institutional Board** of CUORE.

2013-2016 Member of the Ionisation Cooling Test Facility Applications Panel for EuCARD-2

2016-present Member of the **Management Committee** of the COST Action EuroNuNet

2016-2019 Member of the CERN Proto-Synchrotron (PS) and Super-Proton-Synchrotron (SPS) **Scientific Committee (SPSC)**

2018-present National coordinator and member of the **Governing Board** of ESSnuSB (call: H2020-INFRADEV-2017-1)

2019-present Member of the DUNE **Institutional Board**

2020-present Member of the **Editorial Board** of Universe

Summary of scientific publications

Author of 369 papers in the InSPIRE database (236 published in peer-reviewed journals)

Total number of citations (citeable papers): 15110

Average citations per paper: 40.9

H-index: InSPIRE 63