

Curriculum Vitae of Francesco Terranova

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I have been working in experimental neutrino physics for about 25 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
2023-present **Coordinator** of the Monitored Neutrino Beam working group at ESSnuSBplus

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), [NSC](#) (Poland)

2003-present reviewer for 24 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

2016-2019 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 \(SPSC\)](#)

2018-2022 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

2023-present Member of the [Executive Board](#) of ESSnuSBplus (call: HORIZON-INFRA-2022-DEV-01)

Summary of scientific publications

Author of 448 papers in the InSPIRE database (280 published in peer-reviewed journals)

Total number of citations (citeable papers): 20780

Average citations per paper: 46.4

H-index: InSPIRE 70

Grants and research funds

I received grants and research funds from [INFN](#), [EU](#), [Univ. of Milano Bicocca](#), [MIUR](#), and [CERN](#) for a total amount of about 5.4 M€