

PERSONAL INFORMATION

Name: Enrico Nardi
Nationality: Italian
Languages: Italian, English, Spanish, French
Institution: Istituto Nazionale di Fisica Nucleare – Laboratori Nazionali di Frascati (INFN-LNF)
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EDUCATION

1991 Ph.D. SISSA (Trieste, IT). Title: “*Exotic fermion phenomenology*”, Supervisor: Prof. A. Masiero
1990 *Research Associate* in the Program for Advanced Graduate Student, CERN (Geneva, CH)
1989 M. Sc. in Elem. Particles (30/30 *cum Laude*), SISSA (Trieste, IT), Supervisor: Prof. D. Amati
1987 Degree in Theoretical Physics, Univ. of Trieste, (110/110 *cum Laude*), Supervisor: Prof. G. Furlan

CURRENT POSITION

2019- INFN Research Director. (2009-2019 Senior Researcher; 2001-2009 Researcher)
2018- Italian ASN level 1 (qualification as a full professor). All indicators well above threshold

PREVIOUS POSITIONS

2010-2011 Visiting Professor, Madrid Autonoma U. & Institute for Theoretical Physics (Madrid, ES)
1997-2009 Professor of Physics, Postgraduate program, University of Antioquia (Medellín, CO)
1994-1997 Research fellow, Feinberg Graduate School, Weizmann Institute of Science (Rehovot, IL)
1991-1994 Research fellow, Particle Theory Group, Physics. Dept., U. of Michigan, (Ann Arbor, USA)

AWARDS, GRANTS AND RECOGNITIONS

2022- Awarded a five years *Team Grant* from the Estonian Research Council.
2018-2022 Three M. de Maeztu Visiting Scientist grants (2018, 2019, 2022) from U. de Barcelona (ES).
2017 & 2020 Highlight as Physics Review Letters Editors’ Suggestion for two papers on axions: [doi:10.1103/PhysRevLett.118.031801](https://doi.org/10.1103/PhysRevLett.118.031801) (2017) and [doi:10.1103/PhysRevLett.125.131804](https://doi.org/10.1103/PhysRevLett.125.131804) (2020), for “particular importance, innovation, and broad appeal”.
2018-2019 Two Simons Foundation grants from ACP (Aspen, USA) as Leader of “Working Group on Axions (2019) and as invited expert in the workshop “Origin of the baryon-asymmetry” (2018).
2014-2017 Projects of significant national interest (PRIN) grant: Coordinator for LNF and RM1 nodes.
2010-2011 INFN-MICINN ACI2009-1038 grant for collaboration between LNF and U. of Barcelona.
2009 Faculty of Science, UdeA: Plaque and letter of commendation for: ‘*commitment, responsibility, ethics, honesty, initiative, vocation, leadership, always accompanied by excellent human relations, which leave an indelible mark on our institution...*’ (Awarded on the day I resigned).
2006 Faculty of Science, UdeA: Parchment: ‘*In recognition of the leadership of the HE group and for the contributions to the excellence and development of scientific research in the Faculty*’.
2003- European member of the Int. Scientific Committee of the “HEP Latin American Symposium”.
1998-2007 PI of three COLCIENCIAS (CO) national grants (B-physics, Supernova neutrinos, Leptogenesis), and four University (UdeA, CO) research grants (ν -oscillations, ν ’s in supersymmetry, GUT Yukawa couplings, and as HEP Group Coordinator) (\approx 250 k€ total).

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

1997-2019 Supervision of 5 Ph.D. (D. Guetta, J. M. Mira, J. I. Zuluaga, L. A. Muñoz, C. D. Ruiz Carvajal), 5 M.Sc. and 2 B.Sc. students (*all presently holding academic positions*).
2007-2020 Supervision of 12 postdocs: D. Aristizabal, E. Peinado, C.S. Fong, A. Meroni, S. Boucenna, M. Krauss, F. Björkeröth, F. Giacchino, L. Visinelli, L. Darmé, G. Grilli di Cortona, A. Plascencia.

TEACHING ACTIVITIES

Postgraduate Courses (14 semesters): Introduction to QFT, Supersymmetry, Physics of the Early Universe, Advanced topics in the SM, Neutrinos in Physics and Astrophysics (UdeA), Standard Model II (UAM)

Undergraduate Courses (5 Semesters): Electromagnetism I, Subatomic Physics (UdeA)

Short postgraduate courses: Odense Winter School on Theoretical Physics, CP3-Origins, (2017), University of Barcelona (2010), U. San Carlos de Guatemala (2007), AstroScuola 2001 - Otranto (Lecce).

ORGANISATION OF SCIENTIFIC MEETINGS

- 2023 Proposer/Contact person: GGI Workshop on Axions (Arcetri, Florence, April 26 - June 9, 2023)
- 2019 Proposer/Group leader: Aspen Working Group “*The landscape of QCD axion models*”
- 2019 Organiser: LNF Institutes “*Axions & NGB*” and “*Axions in Astrophysics and Cosmology*”
- 2019 Co-organiser: LNF Autumn Institute “*Directional Sub-GeV DM Detection*” (Chair: M. Benito)
- 2019 Deviser/co-organiser of the Rome Physics Encounters @ LNF (3 editions. Chair: L. Darmé)
- 2019 Convener of the “*Ultralight Dark Matter*” session at the 3rd LDMA conference (Venice, IT)
- 2018 Organiser: LNF Summer Institute “*Flavor Physics, axions phenomenology and dark sectors*”
- 2014-2017 Deviser and main organiser of the “*Rome Joint Workshops*” series (6 workshops held)
- 2009-2016 Director of the “*Frascati Spring School Bruno Touschek*” (5 editions). Deviser and director of the Young Researcher Workshops “*Physics challenges in the LHC era*” (5 editions)
- 1997-2009 Local Org. Committee co-chair: 5th Latin American CERN School (Medellín, CO). Co-Chair: International Meeting on Leptogenesis (Medellín, CO). Chair: III Latin American Symposium on High Energy Physics, (SILAFEA-III), Cartagena de Indias, (CO). Convener of the session: *Neutrino Physics, Astrophysics and Cosmology*, 10th Marcel Grossmann Meeting, Rio de Janeiro (BR). Chair: 3rd Latin American Symposium on HEP (SILAFEA-III), Cartagena de Indias, (CO). Director: Colombian School in Theoretical Physics, San Andres Islas, (CO)

INSTITUTIONAL RESPONSIBILITIES

- 2021- Member of the Editorial Board of the journal *Particles* (ISSN 2571-712X)
- 2019-2022 In charge of the postdoctoral “Cabibbo Fellowship” in the memory of Prof. Nicola Cabibbo
- 2015-2022 Coordinator of the Theory Group of the Frascati National Laboratories (LNF)
- 2015-2022 Member of the INFN National Scientific Theory Commission (CSN4)
- 2014-2017 Local LNF responsible for the grant PRIN-2012 in Theoretical Astroparticle Physics
- 2009- Member of various selection committees for INFN/LNF postdoctoral positions
- 2002- LNF responsible of the INFN “Iniziativa Specifica” *Theoretical Astroparticle Physics* (TAsP)
- 2002-2007 Federation Arrangement: Abdus Salam ICTP (Trieste, IT) and Physics Institute (UdeA, CO)
- 2001-2002 Cooperation Agreement COLCIENCIAS/CSIC: Phys. Inst. (UdeA, CO) - U. Valencia (ES)
- 1998-2008 Head of the High Energy Particle Physics Group (GFIF), U. Antioquia (CO)

REVIEWING ACTIVITIES

- 2018-2019 Projects reviewer: FELLINI-Fellowships, co-financed through the MSC COFUND Action
- 2015- Internal referee for Astroparticle Theory, INFN National Scientific Commission 4 (CSN4)
- 1993- Referee for all major Particle Phys. Journals (PRL, PRD, NPB, PLB, JHEP, JCAP, etc.)
- 2002- Reviewer for: National Research Agency (ANR) (FR); FONDECYT (CL); Erwin Schrödinger International Inst. (Vienna U.); National Science Centre (PL); COLCIENCIAS & Codi (CO).

OUTREACH & SCIENTIFIC DISSEMINATION

- 2002-2022 Six conferences for general public and in high schools (Colombia, Guatemala, Italy)
- 2020 Collaboration with the LNF “*Information and Scientific Dissemination Service*”
- 2017 Divulgate article in “[LNF highlights 2016](#)”: *Where should we search to find the Axion?*
- 2015-2016 Three lectures at the 11th (2015) and 12th (2016) IPPOG International Masterclass at LNF
- 2006- Scientific Collaborator for the INFN outreach project “*Scienza Per Tutti*”
- 2001 Outreach conference: “*From Quarks to the Cosmos*”. Physics course for high school teachers

SCIENTIFIC OUTPUT AND METRICS (inSPIRE Database)

Search filter: find a Nardi,E and date > 1988 and not t ions

- 86 articles in peer-reviewed journals (80 with 5 or less authors) with more than 6300 citations
- 114 citable papers (including proceedings and reports) with more than 7000 citations
- average citations per paper: 73; h-index: 40

MAJOR SCIENTIFIC COLLABORATIONS

Counting only articles with two-to-five authors, I have 80 papers with 75 different co-authors from institutes all around the world, including 14 with C.S. Fong (Sao Paulo, BR), 12 with L. Di Luzio (Padova, IT), 9 with E. Roulet (CAB Bariloche, AR), 9 with F. Mescia (Barcelona, ES), 7 with L. Darmé (IP2I, France), 6 with Y. Grossman (Cornell, USA), Y. Nir (Weizmann Inst., IL), D. Aristizabal (Santa María U., CL), M.C. Gonzalez-Garcia

(Stony Brook, USA). Several collaborators of mine were students/postdocs at the beginning of the collaboration.