

CV last update: 13 june 2018

PERSONAL INFORMATION

Daniele Montanino

Place of Birth: Bari, Italy

Date of birth: 11th December 1968

EDUCATION AND CAREER

- 2014: National Academic Qualification as Associate Professor (Abilitazione Scientifica Nazionale II fascia)
- 1999 -present: Staff researcher at the Università del Salento (former Università degli Studi di Lecce)
- 1998 -1999: INFN post-doc in the INFN section of Trieste. Supervisor: Prof. A. Masiero (at SISSA/ISAS at that time)
- 1994 -1998 PhD Student in the Dept. of Physics, Univ. of Bari (Italy). Supervisor: Gianluigi Fogli. Title of the dissertation: "Theoretical interpretation and implications of solar neutrino oscillation researches".
- 1993 - Master's degree Magna Cum Laude, Bari University with a thesis entitled: "The solar neutrino problem and their interactions with matter"). Advisor: G.L. Fogli

SCIENTIFIC OUTPUT

- 46 papers on refereed journals including [source: inSPIRE]
 - 1 Renowned papers (500+ citations)
 - 2 Famous papers (250-499 citations)
 - 11 Very well-known papers (100-249 citations)
 - 19 Well-known papers (50-99 citations)
- 72 contributions to proceedings of international conferences
- 4000+ citations [inSPIRE]
- h-index: 35 [inSPIRE]
- editor of the book "Neutrino: The Mutant Particle" (Ed. by Aracne Editrice, ISBN: 978-88-548-9580-5)
- 2 invited review talks
- 12 invited talks
- 16 invited seminars
- 6 posters in international conferences
- 3 lectures at "Raimondo Anni" Nuclear Physics school

SUPERVISION OF GRADUATE STUDENTS AND POST-DOC STUDENTS

- 2016 Gaia Stanzione, Master's degree with a thesis entitled: "Produzione termica di bosoni leggeri pseudoscalari nell'Universo primordiale"

- 2014 Matteo Leo, Master's degree with a thesis entitled: "Il problema della radiazione oscura: Particelle pseudoscalari primordiali e reionizzazione"
- 2010 Matteo Leo, Bachelor's degree with a thesis entitled: "Conversione dei fotoni in particelle pseudoscalari e trasparenza dell'universo"
- 2009 Angelo Leo, Bachelor's degree with a thesis entitled: "Conversioni autoindotte di neutrini in una supernova con collasso del nucleo"
- 2007-2008 Marco Picariello (postdoctoral researcher, Università del Salento).

TEACHING ACTIVITIES

- Courses at Università del Salento:
 - 2015 -2018: "Relativistic Quantum mechanics" (Master degree in Physics)
 - 2014 -2015: "Theoretical Physic of elementary particles" (Master degree in Physics)
 - 2012 -2013 "Introduction to Modern Physics" (Bachelor degree in Optics and Optometry)
 - 2011 -2012 "Introduction to Modern Physics" (Bachelor degree in Optics and Optometry)
 - 2007 -2008 "Theoretical Physic of elementary particles" (Master degree in Physics)
- Exercise class of Informatics, Statistics, Mathematical Methods for Physics, Introduction to Quantum Mechanics, Elementary Physics.
- PhD Courses at Università del Salento
 - 2013 –2014: "The Standard Model and Beyond" ,
 - 2007 –2012: "Neutrino Physics and Phenomenology"
- PhD Courses at Università Statale di Milano
 - 2006 -2008: "Introduction to Neutrino Physics"

INSTITUTIONAL RESPONSABILITIES AT UNVRSITY OF SALENTO

- 2007 –present: Member of the Faculty Staff of PhD School ("Collegio dei docenti di Dottorato")

ORGANIZATION OF SCIENTIFIC MEETINGS

- Co-organizer of the NOW conference series, "Neutrino Oscillation Workshop" (Conca Specchiulla, Otranto, Italy)
 - NOW 2000, (Otranto, Italy), September 9-16, 2000,
<http://www.ba.infn.it/~now/now2000/>
 - NOW 2004, (Otranto, Italy), September 11-17, 2004,
<http://www.ba.infn.it/~now/now2004/>
 - NOW 2006, (Otranto, Italy), September 9-16, 2006,
<http://www.ba.infn.it/~now/now2006/>

NOW 2008, (Otranto, Italy), September 6-13, 2008,

<http://www.ba.infn.it/~now/now2008/>

NOW 2010, (Otranto, Italy), September 4-11, 2010,

<http://www.ba.infn.it/~now/now2010/>

NOW 2012, (Otranto, Italy), September 9-16, 2012,

<http://www.ba.infn.it/~now/now2012/>

NOW 2014, (Otranto, Italy), September 7-14, 2014,

<http://www.ba.infn.it/~now/now2014/>

NOW 2016, (Otranto, Italy), September 4-11, 2016,

<http://www.ba.infn.it/~now/now2016/>

NOW 2018, (Ostuni, Italy), September 9-16, 2018,

<http://www.ba.infn.it/~now/now2018/>

This is an international conference with about 130-150 participants.

Proceedings from 2000 to 2010 are published on Nucl. Phys. B (Proc. Suppl.) Vol. 100, 145, 168, 188, 217, Nucl. Part. Phys. Proc. 265-266 (2015), in 2016 edition in Proceeding of Science (online)

- Co-organizer of “Astroscuola 2001”, I Italian School of Astroparticle Physics, Conca Specchiulla, Italy, June 11 - 16, 2001.
- Co-organizer of ISAPP 2003 International School on AstroParticle Physics European Doctorate School, Conca Specchiulla, Otranto, Italy, June 15 - 21, 2003, <http://www.mi.infn.it/ISAPP/editionsold/otrant2003/www.ba.infn.it/Eastroscuola03/>

COMMISSIONS OF TRUST

- 2009: Competition for one faculty staff at University of Catania: member of the examining board
- 2009: Member of evaluation committee for the admission to the doctoral school in Physics at Università del Salento
- Working as Referee for the journals: Astroparticle Physics, Journal of Cosmology and Astroparticle Physics, Physical Review D, Physical Review Letters, European Physical Journal, Journal of Geometry and Symmetry in Physics, International Journal of Modern Physics A, Advances in High Energy Physics.
- Reviewer for Zentralblatt Math

MEMBERSHIP OF SCIENTIFIC SOCIETIES

- INFN Associated Researcher INFN (“Incaricato di ricerca”)

FUNDING ID

- Associated researcher to the following PRIN
 - 2002: “Fisica del neutrino, fisica dei neutroni, cosmologia di stringa, transizioni di fase cosmologiche “

◦ 2004: “Fisica astroparticellare, con particolare riguardo a fisica del neutrino, fisica dei neutroni, cosmologia di stringa, transizioni di fase cosmologiche “

◦ 2006: “Fisica astroparticellare, con particolare riguardo a fisica del neutrino, cosmologia di stringa, fisica dei neutroni e delle stelle compatte, transizioni di fase cosmologiche”

◦ 2008: “Fisica astroparticellare, con particolare riguardo a fisica del neutrino, cosmologia di stringa e cosmologia nonstandard”

◦ 2012: “Theoretical Astroparticle Physics”

MAIN RESEARCH AREA

- Physics and phenomenology of neutrino oscillations.
- Non standard neutrino interactions.
- Experimental data analysis.
- Neutrino detection techniques.
- Study of neutrinos in astrophysical environments (in particular, Supernovae)
- Photon Axion oscillations and astrophysical consequences for very high energy photons