

Curriculum Vitae et Studiorum

Ivan De Mitri

(short version – last update september 2018)

Personal

Born in S. Pietro Vernotico (BR), Italy, on January 27, 1970

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Short Profile

Full professor of Experimental Physics of Fundamental Interactions at GSSI, his scientific activity focused since the beginning on astroparticle and neutrino physics.

He graduated in Physics at University of Lecce in 1993 and got his PhD in 1997 at University of L'Aquila working within the MACRO collaboration, one of the first generation experiments at Laboratori Nazionali del Gran Sasso (LNGS) studying high energy cosmic rays, atmospheric neutrino oscillations and searching for GUT magnetic monopoles. He then earned an INFN post-doc fellowship at LNGS within the ICARUS experiment, working on the setup for LAr purity monitoring and the detector simulation for atmospheric and long baseline neutrino studies.

In 1999 he moved to the University of Salento as assistant (and then associate) professor and joined the study of gamma-ray astronomy and cosmic ray physics with the ARGO-YBJ experiment in Tibet. As member of the INFN National Committee for Technological and Inter-disciplinary Research, he led the INFN Lecce group of the Magic-5 experiment developing Computer Aided Detection systems in medical image analysis.

Since 2005 he is a member of the AUGER collaboration, the largest ground based EAS detector for the study of the cosmic ray flux at the highest energies. He led the INFN Lecce group in the DAMPE experiment, studying galactic cosmic rays and searching for indirect dark matter signatures with a satellite on orbit since December 2015.

Since 2011 to 2018 he has been member of the INFN National Scientific Committee for Astroparticle Physics, as coordinator for the activities of the Lecce group.

He taught Experimental Methods for Nuclear and Subnuclear Physics, Classical Mechanics and Electrodynamics, and Astroparticle Physics for PhD students. He supervised more than twenty undergraduate/PhD students or post-docs, and has been member of the Board for PhD in Physics at University of Salento.

Since February 2018 he is at GSSI, where he teaches Experimental Methods for High Energy Astroparticle Physics.

On March 2018 was appointed as Chair of the GSSI PhD program in Astroparticle Physics and elected as member of the GSSI Academic Senate.

Scientific Interests

High Energy Cosmic Rays, Gamma-ray Astronomy, Neutrino (astro)physics, Dark Matter searches, Particle Detectors, Statistics and Data Analysis, Medical Imaging, Interdisciplinary applications, Outreach.

Teaching

Classical Mechanics and Electromagnetism, Nuclear and Subnuclear Physics, Astroparticle Physics, Experimental Techniques in Particle and Astroparticle Physics, Particle Detectors.

Appointments

- 2018- Full Professor (Prima Fascia - SSD FIS/01), Gran Sasso Science Institute
- 2014-2018 Associate Professor (Seconda Fascia - SSD FIS/01), Università del Salento
- 1999-2014 Assistant Professor (Ricercatore - SSD FIS/04), Università del Salento
- 1997-1999 INFN post-doc fellowship, Laboratori Nazionali del Gran Sasso

Certifications

- Jan. 2014 Abilitazione Scientifica Nazionale a Professore di **Prima Fascia** settore **02/A1** - Fisica Sperimentale delle Interazioni Fondamentali
- Dec. 2013 Abilitazione Scientifica Nazionale a Professore di **Prima Fascia** settore **02/B3** - Fisica Applicata
- Jan. 2014 Abilitazione Scientifica Nazionale a Professore di Seconda Fascia settore **02/A1** - Fisica Sperimentale delle Interazioni Fondamentali
- Dec. 2013 Abilitazione Scientifica Nazionale a Professore di Seconda Fascia settore **02/B3** – Fisica Applicata
- Dec. 2014 Abilitazione Scientifica Nazionale a Professore di Seconda Fascia settore **02/C1** – Astronomia, Astrofisica, Fisica della Terra e dei Pianeti

Main Professional Services

- 2018 - Member of the Academic Senate, Gran Sasso Science Institute
- 2018 - Chair of the PhD program in Astroparticle Physics, Gran Sasso Science Institute
- 2014 - Member of the Academic Council of the International Doctorate Network on Particle physics, Astrophysics and Cosmology (IDPASC)
- 2014- Member of the Scientific Advisory Committee of the International Doctorate Network on Particle physics, Astrophysics and Cosmology (IDPASC)
- 2014-2018 Observer in the INFN National Scientific Committee I, from the Committee II
- 2011-2018 Member of the INFN National Scientific Committee II
- 2005-2018 Member of the Collegio dei Docenti, Dottorato in Fisica, Università del Salento
- 2008-2012 Member of the Giunta di Dipartimento di Fisica, Università del Salento
- 2007-2012 Member of the Commissione Tesi, CdL Fisica, Università del Salento
- 2007-2008 Observer in the INFN National Scientific Committee II, from the Committee V
- 2002-2008 Member of the INFN National Scientific Committee V
- 1999-2003 Member of the Commissione Tutorato, CdL Fisica, Università del Salento

Experiments // Main services in Scientific Collaborations

- 2015- DAMPE (Galactic CR and DM in space), International Board Member
- 2015- DAMPE (Galactic CR and DM in space), Group Leader
- 2014- DAMPE (Galactic CR and DM in space), Collaborator

- 2009-2014 AUGER (UHECR ground-based), Task Leader
- 2004- AUGER (UHECR ground-based), Collaborator
- 2003-2010 MAGIC-5 (Medical Imaging), Steering Committee Member
- 2003-2010 MAGIC-5 (Medical Imaging), Group Leader
- 2003-2010 MAGIC-5 (Medical Imaging), Collaborator
- 2012- ARGO-YBJ (CR and γ -astronomy ground-based), Editorial Board Member
- 1999- ARGO-YBJ (CR and γ -astronomy ground-based), Collaborator
- 1999-2001 ICANOE (Atmospheric and Long Baseline ν underground), Collaborator
- 1997-1999 ICARUS (p decay and ν underground), Collaborator
- 1994-2003 MACRO (CR and ν undergr.), Resp. for the Lateral Streamer Monopole Trigger
- 1993-2002 MACRO (CR and ν underground), Rare Particle Working Group Member
- 1992-2002 MACRO (CR and ν underground), Collaborator

Refereeing

- Reviewer for the journal: Astroparticle Physics
- Reviewer for the journal: European Journal of Physics
- Reviewer for the journal: Nuclear and Particle Physics Proceedings
- Reviewer for the journal: Nuclear Physics B
- Reviewer for the journal: Advances in High Energy Physics
- 2016 Reviewer ANVUR VQR 2011-2014 –GEV2
- 2013 Reviewer ANVUR VQR 2004-2010 –GEV2
- 2011- INFN Referee for the CTA experiment
- 2011- INFN Referee for the FERMI experiment
- 2011- INFN Referee for the JEM-EUSO experiment
- 2017 ASI referee for the CALET experiment
- 2011-2013 INFN Referee for the AGILE experiment
- 2003-2011 INFN Referee for about 15 experiments within Scientific Commission V

Awards

- 2017 Most valued reviewer, Astroparticle Physics, Elsevier
- 2013 Most valued reviewer, Astroparticle Physics, Elsevier
- 2012 Most valued reviewer, Astroparticle Physics, Elsevier

Fellowship selections

- 1997 INFN post-doc fellowship, Laboratori Nazionali del Gran Sasso
- 1994 PhD fellowship, Università degli Studi di dell'Aquila
- 1994 PhD fellowship, Università degli Studi di Perugia
- 1994 PhD fellowship, Università degli Studi di Cosenza

Education

- 1997 PhD in Physics, Università degli Studi dell'Aquila
- 1993 Laurea in Fisica, Università degli Studi di Lecce, 110/110 e lode

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Lecce, 25 September 2018

Ivan De Mitri

