

Alessandro De Angelis

Short CV (June 2024)

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Place/date of birth Cencenighe Agordino (Belluno, Italy), 16 August 1959.

Nationality Italian and Argentinian.

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Job/Memberships

Full Professor in Experimental Physics at the University of Padova and in Astrophysics at IST Lisboa (general physics; astroparticle physics/high energy astrophysics).

Scientific Counsellor at the Permanent Delegation of Italy to the International Organizations, Paris: Responsible for Artificial Intelligence/Digital Transition at OECD, Weights and Mesures (BIPM), Nuclear Energy, Global Science.

Principal Investigator of astrophysical projects from ground (formerly Project Scientist of the MAGIC telescopes at La Palma, Canary Islands) and on satellites (ASTROGAM). Member of Gruppo2003, National Institute for Nuclear Physics, National Institute for Astrophysics, Italian Physical Society, Italian Society of Historians of Physics and Astronomy, Society for the History of Science, Red Científicos Argentinos en Italia, LIP Portugal, International Astronomical Union, Global Partnership on Artificial Intelligence (GPAI). Socio of the Accademia Galileiana.

Research Interests

Fundamental physics. From 1983 to 1999, physics with particle accelerators, machine learning; from 1999 to today, high energy astrophysics, particularly cosmic gamma rays.

Previous Appointments (since 1993)

- May 2021 Visiting Professor, GSSI L'Aquila.
- November 2019 Visiting Professor, Institute of Space Science, University of Buenos Aires.
- Oct 2014 - Sep 2017 Director of Research at Istituto Nazionale di Fisica Nucleare (INFN), Padova.
- II Semester 2011/12 Visiting Professor at the University of Tokyo.
- Sep 2010 - Jun 2011 Guest Researcher at Max-Planck Institute for Physics (Werner Heisenberg), Munich.
- II Semester 2001/02 Visiting professor, University of Paris VI.
- 1993 - 1999 Associate (until 1995) and then Staff Member at CERN, Geneva.
- Other periods University of Udine, associate (until 2004) and then full professor (after 2004).

Coordination Experience (since 1993)

- 2022 Chief of the Italian delegation at the Conférence Générale des Poids et Mesures, Versailles.
- 2019 - Coordinator of the Italian Consortium of Universities designing within an international collaboration the Southern Wide-field Gamma-ray Observatory SWGO in the Andes.
- 2015 - 2023 Principal Investigator of the ASTROGAM Collaboration (400 scientists from 16 countries).
- 2021 Coordinator for the PhotoTrap project for innovative photosensors, INFN Padova.
- 2017 - 2019 Coordinator of the Mobility Exchanges in Space Science Italy-Argentina, MAECI.
- 2013 - 2018 INFN Responsible of the *Progetto premiale* TECHE.it, 1.3 MEUR (transfer of semiconductor photosensor technologies from INFN to Italian industry; with FBK Trento & private partners).
- 2013-2016 Chair of the Collaboration Board of the MAGIC telescopes (La Palma, Canary Islands).
- 2010 - 2013 Coordinator of the PhD School in Mathematics and Physics, Universities of Udine/Trieste.
- 2006-2009; 2012 Project Scientist of MAGIC.
- 2012 - 2015 National Coordinator for INFN of the Cherenkov Telescope Array, CTA.
- 2005 - 2011 National Coordinator of MAGIC.
- 2005 - 2009 President of the Master in Computational Physics, Universities of Udine/Trieste/SISSA.
- 1995-1999 Member of the Executive Board of the DELPHI experiment at CERN (400 scientists).
- 1992-1994 Co-coordinator for the national Artificial Intelligence project of INFN.

2012, 2005, 2003, 1998 Responsible of the Udine University for financed *Progetti di Rilevante Interesse Nazionale* in high energy astrophysics and cross-disciplinary (1998: photodetectors for medical physics).

Studies

Classical high-school (Vicenza, 60/60). Graduated magna cum laude in Physics in Padova. Post-lauream Diploma of the Scuola Elettronica di Artiglieria, Roma (Lieutenant of the Italian army). Post-doctoral activity at CERN, Geneva.

Main Scientific Awards

- 2023 Highly Cited Researcher (top 2% in the world) in Nuclear & Particle Physics, Astronomy & Astrophysics during the last 20 years (PLOS/Stanford).
- 2016 Highly Cited Researcher, Thomson-Reuters/Clarivate.
- 2011 Thomson-Reuters Award for belonging to the top 1% researchers in the world publishing in the field of Space Science over the decade 2002-2011.
- 2011 HEAD AAS Bruno Rossi Prize as a member of the GLAST/Fermi-LAT Team.
- 2008 NASA Group Achievement Award (project & construction of the Fermi Space Telescope).

Main Honors

- 2018 *Commendatore* dell'Ordine al Merito della Repubblica Italiana, *motu proprio* of the President of Republic.

Publications

- Books *Galileo e la navigazione satellitare*, by A. De Angelis, Castelvecchi, Roma 2024. With a preface by William R. Shea. Curator of the exhibition at Sorbonne University, Paris, June 2024.
- Cosmic Rays*, by A. De Angelis, Springer Nature, Heidelberg 2023. Italian Edition: *L'Universo Nascosto*, Castelvecchi, Roma 2024. With a preface by Francis Halzen.
- Galileo e la supernova del 1604*, by A. De Angelis, Castelvecchi, Roma 2023. English/International Edition: *Galileo and the 1604 Supernova*, Springer Nature, Heidelberg 2024.
- I diciotto anni migliori della mia vita (Galileo a Padova)*, by A. De Angelis, Castelvecchi, Roma 2021. Portuguese Edition: *Galileu em Pádua*, Gradiva, Lisboa 2023.
- Discorsi e dimostrazioni matematiche di Galileo Galilei per il lettore moderno*, by A. De Angelis, Codice, Torino 2021. English/International Edition: *Galileo's "Two New Sciences" for Modern Readers*, Springer Nature, Heidelberg 2021. French Edition: *Les Deux Sciences Nouvelles de Galilée: une lecture moderne*, EDP, Paris 2022. With prefaces by Ugo Amaldi and Telmo Pievani.
- Particle and Astroparticle Physics: Problems and Solutions*, by A. De Angelis, M. Pimenta, R. Conceição, Springer Nature, Heidelberg 2021.
- Introduction to Particle and Astroparticle Physics: Multimessenger Astronomy and its Particle Physics Foundations*, 2nd Edition, by A. De Angelis and M. Pimenta, Springer Nature, Heidelberg 2018, with a preface by Francis Halzen.
- L'enigma dei raggi cosmici*, by A. De Angelis, Springer Italia, Milano 2012, with a preface by Margherita Hack.
- Several books of Conference Proceedings.
- Articles More than 700 refereed papers in journals, including Science and Nature. Popularization articles in Le Scienze, Sterne und Weltraum, Nuovo Saggiatore, Coelum, L'Astronomia, Corriere della Sera, Repubblica, Tuttoscienze La Stampa, CERN Courier. Participation in several TV and radio emissions (TG Leonardo, Rai 3; Radio 3 Scienza, ...).
- Author for the Enciclopedia Italiana "Treccani".
- H-Index SLAC Inspire: 127 (published papers only). Citations: 75 000 (109 per published paper on average). <https://inspirehep.net/literature?sort=mostrecent&size=25&page=1&q=find%20a%20de%20angelis%20%20a>
- Editorial Activity Editor of the Springer Nature series *History and Philosophy of Physics*. Editor of *Annals of the Brazilian Academy of Sciences* (area of Physical Sciences). Member of the Advisory Committee of *Galaxies*. Referee for leading journals in physics and astronomy (PRL, PR, A&A, ApJ, JCAP, ...)

Languages

Italian (native); English (very good); French (very good); Portuguese (good); Spanish (good).