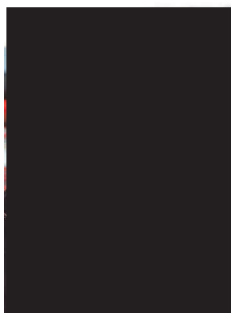



PERSONAL INFORMATION

Fausto Guarino



 Affiliation
 Università di Napoli Federico II
 Dipartimento di Fisica "Ettore Pancini"
 Complesso Universitario di Monte S. Angelo
 Via Cintia, 80126, Napoli, Italy

 [Redacted phone number]

 fausto.guarino@unina.it

 State personal website

- <https://orcid.org/0000-0003-1427-9885>

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

SSD - FIS/01 - FISICA SPERIMENTALE

ACADEMIC POSITION

Since 2021 Full Professor at the "Ettore Pancini" Department of Physics, University of Naples "Federico II"
 (Scientific Disciplinary Sector: FIS/01- Experimental Physics, sector 02/A1)

EDUCATION AND WORK EXPERIENCE

2015 - 2021 Associate Professor at the "Ettore Pancini" Department of Physics, University of Naples "Federico II"
 (Scientific Disciplinary Sector: FIS/01- Experimental Physics, sector 02/A1)

1991 - 2015 Assistant Professor at the University of Naples "Federico II"

SCIENTIFIC ACTIVITIES

1989 - 2000 Member the MACRO collaboration at the INFN Gran Sasso underground laboratory.
 From 1994 to 2000 chair of the Rare Particle Working group of the experiment.

1995 - 1999 Member of the NOE and ICANOE collaborations for the definition of a tau neutrino appearance
 detector for the study of neutrino oscillations in Long Baseline CERN-Gran Sasso.

2000 - 2001 In the PAMELA collaboration for a space based cosmic ray detector

2002 - Present member of the Pierre Auger Collaboration.
 Since 2004 scientific coordinator of the Auger group in Napoli. Responsible for procurement,
 assembling and test of a significant fraction of the photodetectors for the present Auger Upgrade
 program (AugerPrime).

2010 - Present member of the Jem-Euso collaboration, to define a space mission for the detection of ultra high
 energy cosmic rays. Working on event reconstruction and atmospheric monitoring. From 2013 to
 2017 task leader of the detector simulation working group.

2018 - Present member of the Crystal Eye collaboration to define a wide field of view space detectors for the
 detection of electromagnetic counterparts of gravitational waves

- 2021 - Present member of the SWGO collaboration for the definition of a wide field of view high energy Gamma rays observator. Scientific coordinator of the local group. Coordinator of the Detector Working Group in the Collaboration, Responsible for the photosensors task w
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- 2022 - Present member of the NUSES collaboration, a new space mission project promoted by the Gran Sasso Science Institute (GSSI) in collaboration with Thales Alenia Space Italy (TAS-I), devoted to the exploration of new technologies and observational approaches for experiments in space.

GRANTS

PRIN 2005:

Raggi cosmici di alta energia (10^{15} – 10^{21} eV): spettri energetici, composizione primaria e interazioni. Misure, analisi, interpretazione, sviluppi. Connessione di energie, apparati e tecniche diverse.

Role: Research unit coordinator

PRIN 2007:

Studio della radiazione cosmica di altissima energia tramite misure ed analisi delle direzioni di arrivo delle particelle primarie: ricerca di sorgenti, identificazione della transizione tra la radiazione galattica ed extragalattica, origine, propagazione, interazioni.

Role: Research unit coordinator

Bando per cofinanziamenti di progetti di ricerca interuniversitari con l'Argentina (CUIA) 2011-2012:

Studio delle anisotropie dei raggi cosmici per gruppo di massa con l'Osservatorio Pierre Auger

Role: Research unit coordinator

Bando MAE 2014: "Definizione di una soluzione tecnologica per lo studio della composizione dei Raggi Cosmici di Altissima Energia con l'Osservatorio Pierre Auger" - ARGENTINA

Role: Research unit coordinator

SCIENTIFIC COORDINATION

- 1994 -1996: Coordinator of the Magnetic Monopoles searches in MACRO
- 1996 -1998: Coordinator of the "Rare particles working group" in MACRO
- 1995 -2000: Coordinator of the simulation group for the experiment proposals on the CNGS beam NOE and ICANOE.
- 1998: Coordinator of the analysis group for the SPS test beam of the NOE prototype.
- 2004 - 2020: Scientific coordinator of the INFN Napoli group in the Auger experiment
- 2007 - 2009: Responsible for development and production of the analog readout electronics for the High Elevation Telescopes (HEAT) of the Auger experiment.
- 2012: Chairman of the electronics review panel for the muon detector AMIGA of the Auger Experiment
- 2014 - 2018: Task leader of the Simulazione group of the Jem-Euso collaboration
- 2015 - 2018: Task leader of the EUSO-Balloon Analysis Working Group
- 2017 - 2020: Responsible for the production and validation of part of the photomultipliers for the Upgrade of the Auger experiment: AugerPrime
- 2021 - present: Coordinator for the Detector working Group for the SWGO collaboration
- 2021 - present: Responsible for the photodetectors in the SWGO collaboration

INSTITUTIONAL APPOINTMENTS

- 1994 -1997: Member of the executive board Dipartimento di Scienze Fisiche dell'Università Federico II
- 1994 -1997: Responsible for the department store of Dipartimento di Scienze Fisiche dell'Università Federico II
- 2015 -1018: Contact person for "curriculum Subnucleare e Astroparticellare" of the physics department
- 2015 - 2019: Responsible of the Campus Grid computing center of the Dipartimento di Fisica "E. Pancini" dell'Università Federico II and sezione di Napoli dell'Istituto Nazionale di Fisica Nucleare
- 2016 -2018: Member of the executive board del Dipartimento di Fisica "E. Pancini" dell'Università Federico II
- 2016 -2018: Coordinator of te Astroparticle Physics group of Dipartimento di Fisica "E. Pancini" dell'Università Federico II
- 2016 - 2019: Coordinator of "Servizio di Calcolo e Reti " of Dipartimento di Fisica "E. Pancini" dell'Università Federico II and sezione di Napoli dell'Istituto Nazionale di Fisica Nucleare
- 2016 -2018: Member of the Scientific and Technical Committee of Accelerator Laboratory of Dipartimento di Fisica "E. Pancini" dell'Università Federico II
- 2022 – Present Member of the Scientific Committee of the Physics Dept. University of Naples, Italy

STUDENTS SUPERVISION

Supervisor of 14 bachelor theses
Supervisor of 11 master and four-year theses
Tutor of 6 PhD theses.
Supervisor of 7 post doc young researches

PUBLICATIONS Scopus database as at 22/04/2024, Presently an error on scopus splits the author in two
- papers: 346
- citations: 17950
- h-index: 61