

SHORT CV - Speranza Falciano

CURRENT AND PREVIOUS POSITIONS

2021 - 2023	Full Professor at the Gran Sasso Science Institute (GSSI), L'Aquila, Italy
2001 – 2021	Director of Research, Istituto Nazionale di Fisica Nucleare (INFN), Italy
1998 – 1999	Scientific Associate, European Organisation for Nuclear Research (CERN)
1990 – 2001	Senior Research Scientist, Rome Sapienza Division, INFN, Italy
1989 – 1990	Scientific Associate, CERN
1983 – 1990	Permanent Researcher, INFN, Italy
1982 – 1983	Assistant professor, Swiss Federal Institute of Technology (ETH), Switzerland
1978 – 1981	Fellow, CERN

INSTITUTIONAL RESPONSIBILITIES (SELECTION)

2012 – 2013	Vicepresident, INFN, Italy (also in 2015-2016 and 2018-2019)
2011 – 2019	Member of the Executive Board, INFN, Italy
2005 – 2011	Director, Rome Sapienza Division, INFN, Italy and ISS Division, Italy
1987 – 1993	Coordinator of the technological and interdisciplinary researches, Rome Sapienza and Tor Vergata Divisions and local representative in the National Technological Commission, INFN, Italy

APPOINTMENTS (SELECTION)

2023 – now	President of the <i>Accademia dell'Ingegneria e Tecnologia</i> (ITATEC)
2022 – now	Member of the <i>Governing Body</i> of the Fondazione Gran Sasso Tech
2021 – now	Member of the Scientific Technical Committee of the DTC Lazio, Centro di Eccellenza
2021 – 2024	Head of the Laboratory of Nuclear Techniques applied to Cultural Heritage, LABEC, INFN and University of Florence
2019 – now	Member of the Editorial Board of "Il Nuovo Saggiatore", Italian Physical Society
2020 – now	Elected member of the <i>Accademia Europæa</i> – Physics & Engineering Science Section
2019 – 2023	Member of the Scientific Committee of the Gran Sasso National Laboratory of INFN, Italy
2019 – now	Alternate of the representative in the subgroup <i>Infrastructure</i> of the Shadow Strategic Program Committee of Horizon Europe
2019 – 2022	Member of the <i>Governing Body</i> of the GARR Consortium (Italian Network for Research and Universities)
2018 – 2022	INFN representative in the <i>Supervisory Board</i> of the Competence Center SMACT (Social, Mobile, Analytics, Cloud and Internet of Things)
2017 – now	Member of the <i>Governing Body</i> of the Bruno Kessler Foundation (FBK), Trento, Italy
2017 – 2020	Italian representative in the Plenary ECFA (European Committee for Future Accelerators)
2017 – now	Member of the <i>Governing Body</i> of the University of Sassari, Italy
2016 – 2018	Elected member of the EPS (European Physical Society) Council as Italian delegate
1987 – 1993	Italian representative for INFN in the European Committee ESONE for the electronics standard

RECOGNITIONS AND AWARDS

2020	Meritorious Member of the Italian Physical Society
2020	100 Italian Excellence Award, 6 th edition

RESEARCH ACTIVITY

Speranza Falciano graduated in Physics with *laude* at University of Rome, Sapienza in 1978 and started her scientific activity at CERN joining the Omega Prime project, a general facility at SPS devoted to a wide range of experiments in hadron physics.

From 1979 to 1983, first as a CERN Fellow and then as a member of the research group of Prof. Valentine Telegdi at the Federal Polytechnic of Zurich (ETH), she participated to the NA10 experiment for the high statistics study of the production of inclusive muon pairs through high intensity pion beams on heavy nuclear targets.

In 1982 she got a permanent research position at INFN in Italy joining the Rome Bubble Chamber Group engaged at CERN in a series of experiments on charm physics using hybrid detection and in particular the small LEBS bubble chamber coupled to the European Hybrid Spectrometer (EHS). She contributed to the trigger and the data analysis of the NA27 experiment, in particular the measurement of lifetimes, production characteristics and decay properties of the charmed mesons D and Λ_c . NA27 was an experiment that has produced world-class results on charm physics.

In 1984 she joined the L3 Collaboration at the Large Electron Positron collider at CERN (LEP), directed by the Nobel Prize Professor Samuel C. C. Ting, where she carried out her research until the closing of the accelerator in 2000. She was a Visiting Scientist at CERN twice during the experiment. In L3 she contributed mainly to the construction, commissioning and running phases of the experiment, in particular by collaborating in the design and implementation of the high-level trigger and data acquisition system both for the experiment and the calibrations of the electromagnetic calorimeter made of 12.000 BGO crystals. She has been responsible, since 1993 until the end of the experiment, of the third level trigger that has undergone several hardware and software evolutions to adapt to the changes in the detector and accelerator operating conditions (from 4 to 8 bunches and increased energy of the beams).

The L3 experiment contributed to the precise determination of the number of neutrino families from the single photon channel, to numerous and important precision measurements on vector bosons and on the search for the Higgs boson.

For more than fifteen years she has been part of the ATLAS experiment at the Large Hadron Collider at CERN (LHC) where she had a relevant role in the muon detector and the high level trigger. In particular : she contributed to the definition of the readout system of the detectors of the muon spectrometer; she made original contributions to the ATLAS TDAQ system, proposing the creation of hardware and software common to all detectors and a data selection scheme for the self-calibration of the drift chambers of the spectrometer; she studied in detail all the hardware and software aspects to interface the muon detectors to external systems (slow control, trigger, DAQ, online and offline software, etc.); she contributed to the definition of Level-2 trigger algorithms for the reconstruction of muons in the central detector and the implementation of the algorithms in the online system and offline simulation; she participated in the trigger performance studies, especially for the B-physics during the low-luminosity LHC operation; she promoted a significant Italian participation in the combined test beam of one of the eight sectors of the ATLAS barrel and the forward muon chambers, a unique and important example of pre-integration and testing of all the spectrometer components considering that ATLAS is an apparatus of huge size.

In ATLAS she has been part of several bodies both nationally and internationally, covering several positions such as that of Level-2 Trigger coordinator for six years. This resulted in the proposal of a pilot project lasting three years which was the basis of the activities of the groups involved in the design and construction of the trigger until 2003, date of publication of the Technical Design Report of this project. She was responsible for the initial commissioning on the experimental site of the High-Level Triggers (farm of hundreds of processors running complex event reconstruction algorithms with online filtering functions) until she was appointed as Director of the INFN Division of Roma Sapienza.

The ATLAS experiment, together with the CMS experiment at the CERN LHC in Geneva, announced on 4 July 2012 the discovery of the Higgs Boson, a great achievement that will remain in the history of physics and science. After long years of construction and development of the apparatus and of the reconstruction of events in the complex ATLAS detection systems, the international collaboration was indirectly rewarded on October 2013 with the award of the Nobel Prize in Physics to Higgs and Englert whose theories have been confirmed from the experimental data of ATLAS and CMS.

She was Director of the INFN Division in Rome Sapienza (about 120 employees and 150 university associates and other entities of research) and the Associated Group of the Istituto Superiore di Sanità (35 associates) from June 2005 to July 2011. From November 2011 to 31 December 2019 she has been a member of the INFN Executive Board. She held the position of Vice-President of the Institute in the periods 2012-2013, 2015-2016 and 2018-2019.

During the period of the INFN directorate and more as a member of the INFN Executive Board, she devoted many efforts to the application of high energy physics technologies to other fields such as biomedicine, cultural heritage, the environment. The introduction of a Technology Transfer Office of national level and a renewed National Committee for the Technology Transfer has allowed a significant increase in the number of activities dedicated to the transfer of technologies developed in the INFN research lines. Thanks to this continued dedication to the subject, the number of patent applications has increased significantly, as the creation of spin-off companies.

She has been a member of some joint committees of INFN with other scientific institutions (e.g. CNR and INGV). Since 2012 she is a member of the Italian delegation to the ESRF (European Synchrotron Radiation Facility) Council in Grenoble, France. She has been member of the Scientific Committee of the Gran Sasso National Laboratory of INFN, Italy, until February 2023 and is actually *Expert* of the Italian representative in the subgroup *Infrastructure* of the Strategic Program Committee of Horizon Europe. Since 2021 she is the head of the joint UniFI-INFN LABEC laboratory in Florence and is also the P.I. at GSSI of the PE5 PNRR project named CHANGES on the preservation of the cultural heritage against climate changes and natural and anthropic risks. . Very recently she has been elected President of the Italian *Accademia di Ingegneria e Tecnologia*, born with the support of the Accademia dei Lincei.

Her scientific activity is documented by more than 1400 publications in international journals, internal notes and CERN reports and from dozens of seminars and invited reports to national and international conferences (<https://inspirehep.net/authors/1010410>) .

She has been supervisor of several degree and doctoral theses.

Rome, 6 June 2023

Speranza Falciano

Adriani Oscar – Curriculum vitae (2023)

1989: Laurea in Fisica con il massimo dei voti e la lode

1993: Dottorato di Ricerca in Fisica

1997: Ricercatore (settore B04-X) presso il Dipartimento di Fisica dell'Università di Firenze

2005: Professore associato (SSD FIS/01) presso il Dipartimento di Fisica dell'Università di Firenze

2012: Professore Ordinario (SSD FIS/01, SC 02/A1) presso il Dipartimento di Fisica e Astronomia dell'Università di Firenze

Responsabilità gestionali

In ambito INFN

Fino al 2007: Responsabile locale dell'esperimento Pamela presso la sezione INFN di Firenze

2005-2021: *Deputy Spokesperson* dell'esperimento LHCf a LHC

2005-2013: Responsabile nazionale per l'INFN dell'esperimento LHCf a LHC

2014-2017: Responsabile nazionale della Call di Gruppo 5 INFN CaloCube, finalizzata all'ottimizzazione della calorimetria per futuri esperimenti di Raggi Cosmici nello spazio.

Dal 19/06/2015 al 18/06/2023: Direttore della Sezione INFN di Firenze

In ambito universitario

2010-2015: Vice Direttore del Dipartimento di Fisica e Astronomia dell'Università di Firenze

2013-2015: Presidente del Corso di Laurea Triennale in Fisica e Astrofisica e del Corso di Laurea Magistrale in Scienze Fisiche e Astrofisiche dell'Università di Firenze

Nel mese di settembre del 2012 sono stato nominato per meriti scientifici 'Commendatore al merito della Repubblica Italiana' dal Presidente della Repubblica Giorgio Napolitano, in quanto *Deputy Spokesperson* e responsabile nazionale dell'esperimento LHCf.

Attività scientifica principale

1988-1995: Esperimento L3 e rivelatore di microvertice di L3

1995-1997: R&D sui rivelatori al silicio e esperimento PAMELA per la misura precisa degli spettri di antiparticelle nei raggi cosmici

1997-2005: Esperimenti PAMELA e NINA (collaborazione Wizard). Pamela è stato lanciato su un satellite russo nel 2006 per la misura precisa degli spettri dei raggi cosmici (ed in particolare delle antiparticelle).

2005-2010: Esperimento Pamela e esperimento LHCf ad LHC. Quest'ultimo è indirizzato alla misura degli spettri di fotoni, pioni neutri e neutroni emessi nella regione in avanti delle collisioni adroniche di alta energia. L'esperimento è stato ideato per migliorare la conoscenza dei modelli di interazione adronica ad alta energia, essenziali per la fisica dei raggi cosmici di altissima energia

2010-2023: Esperimento LHCf e attività di R&D sulla calorimetria omogenea per esperimenti spaziali, finalizzata all'ottimizzazione dell'esperimento HERD sulla stazione spaziale cinese

Indicatori bibliometrici (estratti dal data base Scopus il giorno 05/06/2023)

Articles in the Scopus database: 742

Total citations: 21814

h-index: 61

Ho cominciato ad acquisire considerevoli ruoli organizzativi e gestionali sin dal momento della mia assunzione come ricercatore presso l'Università di Firenze.

In particolare, fin dall'inizio ho assunto la responsabilità del laboratorio per lo sviluppo di rivelatori al silicio per la fisica delle particelle a seguito della mia partecipazione attiva alla progettazione e messa in funzione del rivelatore di microvertice al silicio per L3. A quel tempo la tecnologia di questo tipo di rivelatori e della loro elettronica di lettura non era ancora consolidata, ed era quindi suscettibile di significativi miglioramenti e ottimizzazioni.

La validità e il grado di successo di questo tipo di R&D è dimostrato dal mio successivo coinvolgimento come responsabile del rivelatore più significativo e di difficile realizzazione di PAMELA: lo spettrometro magnetico. Il gruppo di Firenze, da me coordinato, ha interamente progettato e costruito uno strumento all'avanguardia, che ha raggiunto prestazioni estreme (dal punto di vista della risoluzione spaziale, risoluzione di impulso e massima rigidità massima misurabile), rispettando i vincoli tipici di una missione spaziale (basso consumo di potenza, resistenza alle vibrazioni e alle radiazioni, affidabilità, etc.). Grazie allo spettrometro magnetico, in combinazione con gli altri rivelatori di PAMELA, è stato possibile pubblicare sulla rivista Nature l'osservazione di una anomala frazione di positroni nei raggi cosmici ad alta energia, che è stata dichiarata come una delle scoperte più significative nel campo della fisica fondamentali degli ultimi anni. Inoltre, ho avuto ruoli di significative responsabilità nella gestione dell'esperimento PAMELA sia prima del lancio (assemblaggio e integrazione finale di tutti i componenti dell'apparato e successiva installazione sul satellite), sia dopo il lancio (gestione di situazioni di emergenza e ottimizzazione del funzionamento dello strumento nello spazio).

Più di recente, ho avuto un ruolo di leadership nella proposta, progettazione e realizzazione dell'esperimento LHCf al CERN di Ginevra. Questo esperimento ha lo scopo di misurare con grande precisione le particelle neutre (fotoni, pioni neutri e neutroni) prodotte nelle regioni ad alta rapidità nelle collisioni adroniche ad alta energia su LHC; questo tipo di misura è finalizzato ad una comprensione più precisa delle interazioni dei raggi cosmici di alta energia con l'atmosfera. L'esperimento rappresenta quindi un significativo legame tra la fisica delle particelle agli acceleratori e la fisica dei raggi cosmici, due aree che si erano progressivamente allontanate nel corso degli ultimi decenni. Io sono uno dei due responsabili principali del progetto, basato su di una collaborazione italiano-giapponese; sono stato per molti anni il responsabile nazionale dell'esperimento presso l'INFN, nonché Deputy Spokeperson e Contact Person presso il CERN.

Inoltre, sono anche proponente principale e responsabile di diversi progetti approvati e finanziati in molteplici ambiti scientifici, principalmente rivolti alla fisica dei raggi cosmici effettuata con strumenti in orbita intorno alla terra. In particolare:

1. Responsabile per l'Università di Firenze, di un progetto PRIN finanziato nel 2008 per lo sviluppo di rivelatori innovativi per lo spazio con l'uso di SIPM dal titolo: "Identificazione di particelle ionizzanti in esperimenti spaziali attraverso misure di tempo di alta precisione basato sulla rivelazione della luce Cherenkov";
2. Responsabile per l'Università di Firenze in un progetto finanziato nel POR 2008 dalla Regione Toscana dal titolo "Misura di elettroni e nuclei di alta energia con l'esperimento Calet sulla Stazione Spaziale Internazionale", finalizzato alla partecipazione di giovani ricercatori ad attività di ricerca congiunta con l'industria;
3. Responsabile per l'Università di Firenze in un accordo con l'Agenzia Spaziale Italiana, per la partecipazione all'esperimento Calet, che installato nel 2015 a bordo della Stazione Spaziale Internazionale per la rivelazione di elettroni ad alta energia nella radiazione cosmica. Il progetto, finanziato con circa 2.3 M€, è finalizzato allo sviluppo e alla realizzazione del sistema di alimentazione di alta tensione per

l'apparato, e alla partecipazione alla calibrazione e alla fase di analisi dei dati dello strumento.

Infine, vale la pena ricordare che nel corso di tutta la mia carriera ho sempre portato avanti le attività di R&D per lo sviluppo di tecniche innovative per la rivelazione di particelle e di raggi cosmici, con lo scopo di progredire nella conoscenza della fisica fondamentale. In particolare, negli ultimi anni ho diretto le attività del mio gruppo verso una intensa attività di ricerca e sviluppo con l'obiettivo di ottimizzare la calorimetria di grande accettazione per gli esperimenti spaziali, finalizzata alla misura diretta del ginocchio nei raggi cosmici. Per questo ho lavorato in stretto contatto con i collaboratori russi per l'esperimento Gamma-400 e sto lavorando con i collaboratori cinesi per un futuro esperimento da installare sulla stazione spaziale cinese (HERD).

Sono stato referee per molti progetti finanziati dal Ministero dell'Università e della Ricerca Scientifica, nell'ambito dei programmi PRIN e FIRB, e referee sia per riviste internazionali di fisica che per atti di convegni.

Curriculum Vitae

Eugenio Nappi

Dirigente di Ricerca

Professional experience:

Dr. E. Nappi studied physics at the University of Bari. He completed his higher education in 1981 with a thesis in experimental particle physics on the measurement of direct photon production with high transverse momentum in hadron-hadron collisions at the CERN-SPS NA24 experiment. In 1983, he became a staff researcher at the INFN and, since 2002, he has been Director of Research.

Former director of the INFN Unit of Bari from 2006 to 2012 and member of the Executive Committee of INFN from 2012 to 2020, he served as Vice President of INFN from January 2019 to July 2020.

His scientific activity has been carried out primarily at CERN and DESY (Germany). Collaboration with USA groups at BNL (Brookhaven) and TJNAF Laboratory (Virginia) has fruitfully been established in the last years. Since the beginning of his career, he has had a keen interest in the experimental aspects of CERN physics programme of ultra-relativistic collisions of heavy ions. In this field, devoted to the study of the hot and dense medium formed by the coalescence of hundreds of protons and neutrons, he has been active in the NA35, WA97 and NA57 experiments at the SPS and, subsequently, in the conception and development of the ALICE experiment at the LHC. During the thirty years spent in ALICE, he has occupied the highest managerial positions; he has been member of the Management Board of ALICE since 1998, year in which he was the recipient of a two-year scientific associateship at CERN to serve the experiment as deputy-spokesperson. In this role, he played leading responsibilities and the coordination of the international teams involved in the editing of the Technical Design Reports of the ALICE sub-systems.

At the end of his mandate, in 2000, he became the project leader of the Cherenkov system, named HMPID (High Momentum Particle Identification Detector), devoted to the identification of charged hadrons with a transverse momentum above 1 GeV/c. His term of office covered the full construction phase until the installation in the experiment, which successfully came into operation in September 2006. HMPID is the largest CsI Ring Imaging Cherenkov detector (RICH) so far built in the world. The CsI photocathode development carried out under his responsibility paved the way for the approval and construction of other large CsI RICH devices, such as those for the COMPASS and TJNAF-Hall A experiments.

In 2000, he joined the HERMES experiment at HERA-DESY, designed to study, through deep inelastic scatterings, the spin structure of the proton (or neutron). In HERMES, he drove the design of the first aerogel radiator RICH detector ever built in the world and, for related activities, he was the recipient of a grant (RII-CT-2004-506078-JRA9) from EC-FP6 call.

Fifteen years ago, he conveyed his interest towards the medical imaging by joining the AXPET collaboration at CERN for developing an R&D program focused on a novel geometrical concept of a Positron Emission Tomography (PET) featuring a parallax-free 3D reconstruction of the positron source distribution with high spatial and energy resolution over the complete Field of View. He chaired the Institute Board of the AXPET project until 2012.

As director at the INFN Unit of Bari, he gained additional managerial experience and established many international contacts. The Bari Unit of INFN supports research in nuclear, particle and astroparticle physics, with about 70 staff (researchers, administrators, engineers, technicians) and about 130 associates (mainly university professors).

As member of the Executive Board of INFN, he has overseen the INFN activities in the field of Nuclear Physics and represented the Italian Ministry of Education and Research (MIUR) in the European Spallation Source (ESS) ERIC Council and in the F4E Governing Board.

As Vice President of INFN, he promoted INFN involvement into world-class research facilities, looking forward to high quality scientific achievements and the most inspiring and beneficial prospect into the future for science and technology.

Conscious of the importance of education and communication, he has been particularly attentive to the training of young people. His achievements also include the development of postgraduate education in detector physics and innovative technologies and several successful industrial collaborations with hi-tech commercial partners. Moreover, he has launched a successful series of lectures and hands-on laboratory sessions on innovative nuclear instrumentations devoted to INFN researchers and engineers.

He is author and co-author of about 350 papers published in international journals with peer-reviewing and he is reviewer of scientific journals, editor of EPJ Plus and Nuclear Physics News and member of International Scientific Advisory Committees and Organizing Committees in several Conferences and Workshops on Nuclear Physics instrumentation (see the list below).

INSTITUTIONAL RESPONSIBILITIES

2022 – Today	Chair of the EGS Consortium
2020 – Today	Member of the Italian delegation in the ELI-ERIC General Assembly
2019 – Today	Chair of the Council of the European Consortium TIARA
2018 – Today	Member of the EPS Executive Committee
2011 – Today	Member of ICFA panel on Instrumentation
2009 – Today	Member of NuPECC
2016 – 2021	Associate Member / IUPAP C-11
2016 – 2020	Italian delegate of Ministry of Research and Education, ERIC-ESS Council/Sweden
2015 – 2020	Italian delegate of Ministry of Research and Education, Governing Board of Fusion for Energy/ F4E/ Spain
2014 – 2021	Appointed member / IUPAP C-12
2012– 2020	Funding Agency representative for INFN, LHC Review Resource Board (RRB) /CERN /Switzerland
2008 – 2020	Representative of INFN, Plenary ECFA/ CERN/ Switzerland
2014 – 2016	Chair of the Accelerator Collaboration Board, European Spallation Source,

ERIC-ESS/Sweden
2012 – 2015 Italian Delegate of Ministry of research and Education, Steering Committee of the European Spallation Source Project (ESS-AB) / Sweden
2010 – 2012 Chair of the Institute Board of the AXPET project / CERN
2000 – 2006 Project leader of HMPID detector / ALICE experiment at the LHC/ CERN
1998 – 2000 Deputy Spokesperson of ALICE Experiment / the LHC/ CERN

COMMISSIONS OF TRUST

2013 – 2018 Editor in Chief, EPJ Plus / SPRINGER/ Germany
2019 – Today Managing Editor, EPJ Plus / SPRINGER/ Germany
2013 Evaluator, ERC Consolidator projects/ EC
2012 – Today Deputy Chair, ECE (Expert Committee for the Experiments)/ FAIR/ Germany
2012 – 2016 Member of CST (Scientific-Technical Committee), IPN Orsay/ CNRS/ France
2012 – Today Editorial Board, NPN (Nuclear Physics News)/ NuPECC
2012 Evaluator of scientific projects/ FCT/ Portugal
2011 Evaluator of scientific projects/ STFC/ UK
2009 Evaluator of scientific projects/ Israel Science Foundation/ Israel

FELLOWSHIPS AND AWARDS

2015 Elected member of the Academia Europaea, London/United Kingdom

JOURNAL REVIEWER

2000 – IEEE - Transaction in Nuclear Science (TNS)
1996 – "Nuclear Instrument and Methods in Physics Research, Section A" by North-Holland.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

1981 – Member, Italian Society of Physics, Bologna / Italy
2015 – Member of "Academia Europaea" (AE)
2018 – Member of the European Society of Physics

BOOK and MONOGRAPH AUTHORSHIP

Book title: Imaging gaseous detectors and their applications,
Publisher: Wiley-VCH; ISBN-10: 3527408983
Authors: Eugenio Nappi and Vladimir Peskov;

Monographs:

Ring Imaging Cherenkov Detectors: The state of the art and perspectives,
Publisher: LA RIVISTA DEL NUOVO CIMENTO Vol. 28, N. 8-9 2005
Authors: Eugenio Nappi and Jacques Seguinot.

Strangeness in hot and dense nuclear matter

Publisher: LA RIVISTA DEL NUOVO CIMENTO Vol. 32, N. 6 2009
Authors: Eugenio Nappi.

EDITORIAL ACTIVITIES

- Proceedings of the INTERNATIONAL SCHOOL OF PHYSICS "ENRICO FERMI"
Course CLXXVIII: From the Big Bang to the Nucleosynthesis" 19-24 July 2010,
published in 2011 by IOS Press and Societa' Italiana di Fisica, ISSN 0074-784X

- Proceedings "Experimental Techniques of Cherenkov Light Imaging", (ISSN 0168-9002), published by North-Holland in 1994, 2011 (RICH2010), 2014 (RICH2013), 2017 (RICH2016) e 2020 (RICH2018).
- Technical Design Report CERN/LHCC 98–19 "Detector for High Momentum PID", ISBN 92-9083-134-0
- Innovative detectors for supercolliders, ISBN 981-238-745-5, published by World Scientific.

EC GRANTS AND FUNDINGS

- 2005 Principal Investigator of INTAS, CERN Call 2005 # 103, Project 7544.
- 2004 Leader of Research Activity JRA9 for the grant RII-CT-2004-506078 (“HadronPhysics”)
- 2000 Principal Investigator of INTAS, CERN Call 2000 #350

Bari, June 6, 2023