

Giulietto Felici (gender: male) got his physics degree in Rome University in 1982. After 6 month scholarship at CERN he had (about) four year experience as high school teacher at the Istituto Tecnico G. Vallauri, Roma. In 1988 he got a staff position at the Istituto Nazionale di Fisica Nucleare – Laboratori Nazionali di Frascati (Italy) and, at present, he is an INFN senior technologist. Since 1984 he designed front-end electronic systems for high energy physics detectors and collaborated with several projects (1988-1990: ALEPH experiment - hadronic calorimeter front-end electronics; 1990-1991: GLASS research program - RPC implemented with doped plate glasses; 1992: GMSC research program; 1993-1997: KLOE experiment – Drift Chamber electronics coordinator; 1998-2006: LNF electronic workshop coordinator; 2000-2004: LHCb experiment – MWPC muon electronics; 2004-2008: OPERA experiment – Spectrometer front-end electronics coordinator; 2008-2012: SuperB experiment – Drift Chamber electronics coordinator). Currently, besides the LHCb experiment, he is collaborating with BES experiment in the construction of the first Cylindrical GEM (C-GEM) Inner Tracker with strip analog readout for accurate position measurements, with the Juno experiment in the design of Target Tracker front-end electronics, and with the SHIP (Search for Hidden Particles) experiment at CERN for a feasibility study of a high timing resolution muon detector based on SiPM coupled to scintillator tiles.

Relevant Publications

- The KLOE drift chamber readout system, S. Veneziano, **G.Felici** et al., IEEE Trans.Nucl.Sci. 47:299-303, 2000
- M. anelli, **G. Felici** et al, High-rate performance of the MWPCs for the LHCb muon system Nucl. Instrum. Meth. A593:319-323,2008
- Balla, **G. Felici** et al., “GASTONE a new ASIC for the cylindrical GEM Inner Tracker of KLOE experiment at DAFNE”, Nucl. Instrum. Meth. A 604 (2009) 23-25.
- Bergnoli, **G. Felici** et al., “The OPERA VETO system”, Nucl.Instrum.Meth. A602 (2009) 653-657
- Balla , **G. Felici** et al., “A new cylindrical-GEM inner tracker for the upgrade of the KLOE experiment” Nucl.Phys.Proc.Suppl. 215 (2011) 76-78

Giulietto Felici

ELISABETTA BARACCHINI

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• EDUCATION

- 2/2009 PhD in Particle Physics at Università La Sapienza of Rome, Italy, with grade “Optimum”, thesis title “*Search for $B^+ \rightarrow l^+ \nu$ at BaBar with $l = (e, \mu)$ and Phenomenological Implications*”, advisor: Dr. R. Faccini, Prof. G. Isidori and Dr. G. Piredda.
- 6/2005 Master Degree in Particle Physics at Università La Sapienza of Rome, Italy, with grade 110/110 *cum laude*, thesis title “*Correzioni radiative ai decadimenti in due corpi del mesone B*”, advisor: Prof. F. Ferroni, Prof. G. Cavoto, Prof. G. Isidori.
- 7/2000 Liceo Classico high school degree with 100/100.

• CURRENT POSITION

- 2019-present Professore Associato of the Astroparticle Physics Department at the Gran Sasso Science Institute (GSSI), l’Aquila, Italy.

• PREVIOUS POSITIONS AND INTERNATIONAL MOBILITY

- 2018-2019 Ricercatore RTDa for the Astroparticle Physics Department at the Gran Sasso Science Institute (GSSI), l’Aquila, Italy.
- 2017 Ricercatore of the Istituto Nazionale di Fisica Nucleare (sezione Roma I) at Università La Sapienza of Rome, Rome, Italy.
- 2015-2017 Primo Ricercatore (Marie Słodowska-Curie Individual Fellowship) of the Istituto Nazionale di Fisica Nucleare at the Laboratori Nazionali di Frascati, Frascati, Italy.
- 2012-2015 Researcher of the International Center for Elementary Particle Physics (ICEPP) at the University of Tokyo, Tokyo, Japan, for the MEG experiment.
- 2012 Researcher of Université Paris Sud at the Laboratoire de l’Accélérateur Linéaire (LAL), Orsay, France, for the SuperB project.
- 2011 Researcher of the Institute of Particle and Nuclear Studies (IPNS) at the High Energy Accelerator Research Organization (KEK), Tsukuba, Japan, for the MEG experiment.
- 2008-2011 Post Doctoral Scholar Employee of the Department of Physics and Astronomy of the University of Irvine, California, USA, for the MEG experiment.

• FELLOWSHIPS AND AWARDS

- 2018 ERC Consolidator grant for the project “*INITIUM: an Innovative Negative Ion Time projection chamber for Underground dark Matter searches*” in the framework of Horizon 2020, funded for a total of about 2M EUROS.
- 2016 ERC Starting grant for the project “*NICE: a Negative Ion Chamber Experiment*” in the framework of Horizon 2020, evaluated to fully meet ERC excellence criteria (panels score ‘A’ and ‘A’), not funded due to ranking and limited funds.
- 2015 Marie Słodowska-Curie Individual Fellowship for the project “*NITEC: a Negative Ion Time Expansion Chamber for directional Dark Matter searches*” in the framework of Horizon 2020.

2011 Research Fellowship at the Université Paris Sud in the framework of the European Project “*Research Chairs of Excellence Based University - Universities of Paris*” (RBUCE-UP), funded as a part of Marie-Curie Actions under the 7th Framework Programme.

2003 Student Excellence Award “*Enrico Persico*” from the Accademia Nazionale dei Lincei, Rome, Italy.

• **QUALIFICATIONS**

2014 National scientific qualification as Associate Professor in the sector “*02/A1 -Experimental Physics of Fundamental Interactions*”.

• **TEACHING AND TUTORING ACTIVITIES**

2019 PhD Advisor of three students of the Gran Sasso Science Institute.

2018-present PhD course “*Direct Dark Matter Searches and its Experimental Challenges*” at the Gran Sasso Science Institute.

2018 Trainer for two M1 Internship on “*Directional Dark Matter searches with the CYGNUS-RD project*” at GSSI of students from the University Claude Bernard (Lyon, France).

2015 Tutor for the “*GEMPix TPC tracker characterisation at the BTF*” class of the Gaseous Detector Laboratory for the Excellence in Detector and Instrumentation Technology International School 2015 (EDIT 2015) at Laboratori Nazionali di Frascati (INFN).

2006-2007 “*Radiation Detector Laboratory*” class for the Physics Master Degree at Università la Sapienza of Rome, Italy, as Assistant of Prof. Mattioli.

• **OUTREACH ACTIVITIES**

2019 Speaker for the event “*Scienziate da Nobel*”, in the framework of the festival “*L’Eredità delle donne*” at the Saloncino della Pergola, Florence.

2019 Speaker for the IX Festa della Scienza e Filosofia at Foligno, with the talk “*La ricerca diretta di materia oscura, ovvero come ascoltare il flebile canto del cigno*” in Foligno.

2019 Speaker for the event “*Fisiche, Femminile Plurale*” presented by Serena Dandini in the framework of National Geographic Festival delle Scienze at the Auditorium Parco della Musica, Rome.

2019 Speaker for the TEDxVareseSalon event “*La scienza per disegnare il mondo*”, at the European Commission Join Research Center at Ispra.

2015 Volunteer for the LNF Educational and Scientific Documentation Service and Staff for the European Researcher’s Night at LNF as laboratories tour guide.

• **ORGANIZATION OF SCIENTIFIC MEETINGS**

2018 Organizer and chair of “*CYGNUS-TPC Collaboration meeting 2018*” at the Gran Sasso Science Institute, l’Aquila, Italy.

2016 Co-organizer and chair of “*CYGNUS-TPC meeting*” at Sheffield University, Sheffield, United Kingdom.

2016 Organizer and chair of “*CYGNUS-TPC kick-off meeting: a mini-workshop on dark matter searches and coherent neutrino scattering*” at Laboratori Nazionali di Frascati, Frascati, Italy.

2012 Chair of the “*Muon Physics and other High Intensity Application*” session at “*NuFact 2012*,

• **INSTITUTIONAL RESPONSIBILITIES**

- 2019-Present Research Unit Investigator for the project “*Zero Radioactivity in Future Experiments*”, funded as PRIN: Progetto di ricerca di rilevante interesse nazionale (Prot. 2017T54J9J).
- 2018-Present Principal Investigator of the project “*INITIUM: an Innovative Negative Ion Time projection chamber for Underground dark Matter searches*”, funded as ERC Consolidator Grant.
- 2018-Present Proponent, Physics Coordinator and INFN Local Responsible for Laboratori Nazionali del Gran Sasso (LNGS) of the *CYGNO* project, for the development of a 1 m³ gaseous TPC with optical readout with CMOS and PMT for directional Dark Matter searches at LNGS, approved for funding for 2019 by INFN CSN2.
- 2016-Present Co-proponent and Spokesperson of the *CYGNUS-TPC* project, a newly formed international collaboration for the development of a global network of recoil sensitive TPCs for directional Dark Matter search at the ton-scale.
- 2016-2018 Co-proponent of the project “*New scintillating gases and structures for next-generation scintillation-based gaseous detectors*”, approved and funded by CERN RD51 Common Project for 2017-2018 for a total project cost of 38k CHF/year.
- 2016-2018 Scientific Advisor of the project “*CYGNUS-RD*”, approved and funded by INFN CSN5 for 2017-2018 for a total project cost of 20k EUROS/year.
- 2015-2017 Principal Investigator of the project “*NITEC: a Negative Ion Time Expansion Chamber for directional Dark Matter searches*”, funded by Horizon 2020-Marie Skłodowska-Curie Action.
- 2013-2015 Co-responsible (in collaboration with the MEG Pisa group) of the production, development, optimization and test of prototypes of the cylindrical drift chamber of the MEG II experiment upgrade in Pisa, Italy.
- 2012-2013 Run Coordinator for the data taking of the MEG experiment at the Paul Scherrer Institute, Villigen, Switzerland.
- 2012-2013 Liquid Xenon Detector monitoring for the MEG experiment at the Paul Scherrer Institute, Villigen, Switzerland.
- 2011-2015 Responsible of simulation and preliminary reconstruction of the positron track in the cylindrical drift chamber of the MEG II experiment upgrade.
- 2008-2015 Responsible of simulation, reconstruction and analysis of the positron track in the drift chambers of the MEG experiment.
- 2007 Operation Manager of the muons and neutral hadrons detector (Instrumented Flux Return with Resistive Plate Chambers and Limited Streamer Tubes) of the BaBar experiment at the Stanford Linear Accelerator Center, Menlo Park, USA.

• **R&D RESEARCH ACTIVITIES**

- 2016-Present Development, test and optimization of Time Projection Chambers with GEMs amplification and optical CMOS + PMT readout, as a part of the *CYGNUS-RD*, *CYGNO*, PRIN and *INITIUM* projects. We manufacture one small (0.1 L) and one large (10 L) detector to test gas properties and tracking performances. We demonstrated O(keV) energy threshold with $\pm 20\text{-}30\%$ resolution at 5.9 keV, 3D tracking over 20 cm drift distance with O(100) μm resolution in the X-Y plane, PID capabilities through dE/dx for keV-MeV electrons and keV nuclear recoils, and the possibility of rejecting surface events exploiting

the effect of electrons diffusion in the light signal. We moreover recently demonstrated the detector response to 2.45 MeV neutrons and successfully operated the integrated DAQ for the simultaneous acquisition of PMT and CMOS signals..

- 2015-Present Development, test and optimization of a Time Projection Chamber with triple thin GEMs amplification and Timepix pixels readout, as part of NITEC project funded by the Marie Curie Individual Fellowship. Operation of NITEC with negative ion drift, a peculiar choice of the gas mixture that allows reducing diffusion to the thermal limit, improving position and energy resolution, without the need for a magnetic field. We operated thin GEMs for the first time ever in negative ion regime, with pure SF₆, Ar:CO₂:SF₆ and He:CF₄:SF₆ gas mixtures from 75 Torr up to nearly atmospheric pressure and measured drift velocity and mobility, opening the doors for the feasibility of a He:SF₆-based NITPC at atmospheric pressure. We also obtained for the first time gains of 10³-10⁴ in pure SF₆ between 150 Torr and 340 Torr (from the spectrum of ⁵⁵Fe, article in preparation), demonstrating the amplification potential of triple thin GEMs in this application.
- 2011-2015 Development, construction, optimization and testing of small (20 cm) and full-length (180 cm) prototypes for the cylindrical drift chamber of the MEG II experiment. With the firsts, I demonstrated the feasibility of the position resolution required for the upgrade and the wires capability of sustaining the substantial ageing expected after 3 years of MEG II running. With the full-length ones, I validated the acoustic method for measuring the wires tension and demonstrated the ability to infer the coordinate along the wire from measurements of time and the charge division.

• **DATA ANALYSIS AND SIMULATION RESEARCH ACTIVITIES**

- 2015-Present Analysis of NITEC data, drift velocity, mobility and gain measurements. Development of an original algorithm for the identification of the single ionization clusters, with both electrons and negative ions drift.
- 2011-2015 Responsible for the simulation and preliminary reconstruction of charged tracks in the cylindrical drift chamber of the experiment MEG II. Development and validation of the full cylindrical drift chamber simulation in GEANT4, preliminary track reconstruction and evaluation of the final resolutions.
- 2009-2015 Responsible for the simulation, reconstruction and analysis of the tracks in the spectrometer of the MEG experiment. Optimization of the analysis of the drift chamber signals under any possible aspect, from online zero suppression to offline synchronization, from chambers alignment to the better comprehension of magnetic field, energy loss and multiple scattering in the detector. My major contribution has been the discovery and study of correlations between the resolutions of the positron kinematic variables used in the likelihood analysis. Thanks to a careful treatment of such correlations, the experiment sensitivity was improved by 10%.
- 2008 Development of an original inclusive data analysis for the decay $B^+ \rightarrow l^+ \nu_l$ with $l = e, \mu$ at Babar, that produced what is still the current best world upper limit on the $B^+ \rightarrow \mu^+ \nu_\mu$ branching ratio measurement with $BR(B^+ \rightarrow \mu^+ \nu_\mu) < 1.0 \times 10^{-6}$ at 90% C. L..
- 2006-2007 Detailed study of the potentialities of running a high luminosity B-Factory at the Y(5S) resonance with dedicated simulations and analysis techniques. This study has been included in the SuperB project Conceptual Design Report and generated great interest in Belle and Belle II community.
- 2005 Study of the final state radiation, validation of the simulation and extraction of non-radiative branching ratio for rare decays $B^0 \rightarrow \pi^+ \pi^-$, $K^+ \pi^-$ and $K^+ K^-$ at BaBar. Thanks to this work, BaBar was the first experiment to include the effects of final state radiation from the daughters mesons and to measure non-radiative branching fractions of B meson decays, followed later by the Belle collaboration.

2005 Calculation of radiative corrections to non-leptonic two-body heavy mesons decay in scalar QED approximation, used also in the CDF experiment MonteCarlo in the simulation of $B^0 \rightarrow h^+ h^-$ decays.

• MAJOR COLLABORATIONS

2018-present Spokesperson, Physics Analysis Coordinator, INFN Local Responsible for LNGS and member of the *CYGNO* project.

2016-Present Scientific Advisor and member of the CYGNUS-RD project (INFN CSN5), for the development of Time Projection Chamber with triple thin GEMs amplification and optical CMOS + PMT readout.

2016-Present Spokesperson and member of the CYGNUS-TPC collaboration, for the development of a global network of recoil sensitive TPCs for directional Dark Matter search at the ton-scale.

2008-Present Member of the MEG experiment collaboration, where I published 21 articles on peer-reviewed journals with an average number of citations per paper of 150 (source SPIRES), contributed to the data taking, monitoring of the experiment and **all data analyses** for 6 years and developed and optimized, in collaboration with the Pisa MEG group, the design of the cylindrical drift chamber of the MEG II experiment upgrade.

2005-2008 Member of the BaBar experiment collaboration, where I published 204 articles on peer-reviewed journals with an average number of citations per paper of 64 (source SPIRES), contributed to the data taking for 3 years, produced **4 original data analysis** and was active member of the "Leptonic Bottom/Charm Physics", "Charmless Hadronic B Decays" and "Tracking Efficiency Task Force" Analysis Working Groups

• SCIENTIFIC OUTPUT

- **222 articles published** on peer-reviewed journals
- **H-index 66**, source SPIRES.
- Total number of citations: 14830 (10546 excluding self cites), average citations per paper: 67 (48 excluding self cites), source SPIRES.
- A total of **58 talks** at international conferences, workshops, seminars in laboratories and universities, among which **9 invited department seminars and 3 reviews**. A brief list of the most recent and relevant is presented here:

9/2019 “*Directional Dark Matter Searches with the CYGNO Project* ” at the 16th International Conference on Topics in Astroparticle and Underground Physics TAUP 2019, Toyama, Japan.

5/2019 “*Dark Matter Astroparticle Physics Review*” (invited), at the 16th International Conference on Micro Pattern Gas Detectors MPDG 2019, La Rochelle, France.

7/2018 “*Directional Dark Matter searches with optical readout & the CYGNO project*”, 12th International Conference of Identification of Dark Matter 2018, Brown University, Providence, USA.

7/2016 “*NITEC: a Negative Ion Time Expansion Chamber for very rare events searches*”, 11th International Conference of Identification of Dark Matter 2016, Sheffield, United Kingdom.

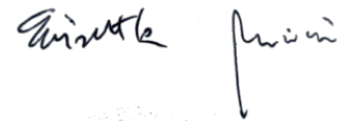
6/2014 “*The Meg experiment: past, present and future*”, Astroparticle Physics 2014, A joint TeVPA/IDM Conference, Amsterdam, Netherlands.

8/2013 “*Meg experiment: past, present and future*”, Rencontres du Vietnam 2013: Windows on the Universe, Quy Nhon, Vietnam.

- 6/2012 *"Meg experiment: status and prospectives"*, NuFact 2012, University of Williams & Mary, Williamsburg, USA.
- 3/2010 *"First results from the MEG experiment"*, 45th edition of Rencontres de Moriond: Electroweak Interactions and Unified Theories, La Thuile, Italy.
- 3/2009 *"Rare B mesons decays at BaBar"*, 44th edition of Rencontres de Moriond: Electroweak Interactions and Unified Theories, La Thuile, Italy.
- 7/2008 *"Leptonic B decays at BaBar"*, 34th edition of the International Conference on High Energy Physics (ICHEP), Penn Campus, Philadelphia, USA.
- 12/2006 *"B_s studies at SuperB: physics case and experimental potentialities"*, V International Workshop on CKM Unitary Triangle, Nagoya University, Nagoya and II Workshop on B Factories and New Measurements, Nara Women's University, Nara, Japan.
- 3/2005 *"Theory: radiative corrections to hadronic B decays"*, Workshop on Radiative Corrections on B, D and K Decays, University of La Jolla, San Diego, USA.

L'Aquila, 4 Giugno 2020

Elisabetta Baracchini

A handwritten signature in black ink, appearing to read 'Elisabetta Baracchini', with a long vertical stroke extending downwards from the end of the name.

Contatta

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www.linkedin.com/in/giovanni-mazzitelli-5948a624 (LinkedIn)
www.frascatiscienza.it/ (Other)
www.infn.it/ (Company)
giovannimazzitelli.blog/ (Personal)

Competenze principali

Physics
Research
Science

Languages

English (Professional Working)
Italian (Native or Bilingual)

Honors-Awards

XIV Premio San Bernardino per la pubblicità socialmente responsabile

Publications

Google scholar references

Giovanni Mazzitelli

Primo Ricercatore presso Laboratori Nazionali di Frascati dell'Istituto Nazionale di Fisica Nucleare
Rome Area, Italy

Riepilogo

Fisico dell'Istituto Nazionale di Fisica Nucleare, dopo un passato nelle onde gravitazionali, si è occupato di acceleratori, rivelatori di particelle e oggi svolge attività di ricerca nel campo della materia oscura. Inoltre, da alcuni anni è impegnato nel trasferimento delle tecnologie informatiche usate nelle grandi macchine della scienza ed è coordinatore scientifico del progetto di condivisione dei dati fra i maggiori istituti di ricerca ed università dell'area romana. In qualità di divulgatore scientifico, ha fondato l'associazione Frascati Scienza, che raggruppa i ricercatori del grande polo scientifico romano e che organizza dal 2006 la Notte Europea dei Ricercatori, coordinando oltre 30 città italiane e più di 50 partner scientifici.

Esperienza

Istituto Nazionale di Fisica Nucleare

23 anni 5 mesi

Primo Ricercatore

gennaio 2006 - Present (14 anni 6 mesi)

Lazio, Italia

Ricercatore presso la Divisione Ricerca dei Laboratori Nazionali di Frascati dell'INFN. Principali incarichi di responsabilità e coordinamento:

- Coordinatore in seno alla Commissione Scientifica Nazionale II INFN per i Laboratori Nazionali di Frascati
- Coordinatore Tecnico e Responsabile LNF per il progetto CYGNO/INITUM per la ricerca di Dark Matter direzionale ai LNGS.
- Coordinatore Scientifico (WG eScience) del progetto "Lazio Pulse";
- Responsabile LNF del progetto CYGNUS-RD INFN-CSN5;
- Responsabile progetto premiale MIUR !CHAOS: A Cloud of Controls (2013-2016);
- Responsabile del Servizio Formazione, Alta Formazione e Finanziamenti Esterni dei Laboratori Nazionali di Frascati (INFN) (2012-2015);

- Responsabile per i controlli del dipartimento acceleratori del CabibboLab;
- Vice responsabile della Divisione Acceleratori dei LNF-INFN con incarico di coordinatore delle attività scientifiche e gestionali (2009-2012);
- Responsabile (WP8 coordinator) delle test facility europee nel progetto INFRA-AIDA-2011/2015-FP7-GA-262025;
- Coordinatore delle attività scientifiche e gestionali della Divisione Acceleratori (2007-2010);
- Responsabile del progetto n@BTF INFN-CSN5;
- Responsabile della DAFNE Beam Test Facility ai LNF-INFN (2004-2012);
- Coordinatore scientifico per gli upgrade di DAFNE e l'installazione del schema Crab Waist;

Tecnologo

febbraio 1997 - dicembre 2005 (8 anni 11 mesi)

In questo periodo, oltre ad occuparsi dello sviluppo del sistema di controllo e del software di alto livello per l'acceleratore DAFNE, progetta e mette in funzione la DAFNE Beam Test Facility, il test beam di Frascati che da lì a poco ospiterà centinaia di gruppi sperimentali l'anno da tutto il mondo. Inoltre la sua tesi sull'effetto dei raggi cosmici sulle sbarre risonanti, ha portato alla nascita dell'esperimento in CNS2 RAP (Rivelazione Acustica di Particelle).

- Responsabile dei dati e dello Slow Control di DAFNE;
- Coordinatore (Task leader) nel progetto europeo INFRA-ILIAS-GW-STREGA-FP6;
- Responsabile dei progetti europei: COME-IN-2016-FP6-GA-044837 e AGORA-2007-FP7-GA-200202;
- Coordinatore scientifico delle attività di comunicazione dei LNF 2003-2006.

Associazione Frascati Scienza

10 anni 10 mesi

Membro del consiglio direttivo

luglio 2017 - novembre 2018 (1 anno 5 mesi)

Frascati

Presidente

aprile 2012 - luglio 2017 (5 anni 4 mesi)

Lazio, Italia

la nostra missione e i nostri obiettivi: condividere esperienze e volti della scienza, rafforzando la partecipazione alla Ricerca come bene comune e la diffusione della cultura scientifica.

Dal 2012 ha ideato e realizzato, i progetti MCSA-MADE IN SCIENCE-2016/17-H2020-GA-722952, MCSA-DREAMS-2014/15-H2020-GA-633230,

TARIL-2013-FP7-GA-609662, RESPECT-2012-FP7-GA-316436. I progetti Lazio Pulse e WIRE15 e WIRE16 per l'incontro fra Impresa Ricerca ed Economia.

Vicepresidente

febbraio 2008 - aprile 2012 (4 anni 3 mesi)

L'associazione Frascati Scienza nasce dall'esigenza di condividere e partecipare all'importante patrimonio dell'area scientifica tuscolana, fra le più importanti e vaste d'Europa, promuovendo l'educazione alla ricerca scientifica e la sua comunicazione al largo pubblico attraverso eventi di divulgazione e reti di comunicazione permanente fra ricercatori e cittadini.

- Come Vicepresidente si e' occupato della comunicazione ed immagine dell'associazione e ha ideato e realizzato i progetti BRAIN-2011-FP7-GA-287442, BEST-2010-FP7-GA-265743, SAY-2009-FP7-GA-244954, EOS-2008-FP7-GA-228619;

National Institute for Nuclear Physics and High Energy Physics of Amsterdam

Ricercatore

febbraio 1996 - gennaio 1997 (1 anno)

Simulazione montecarlo dell'effetto dei raggi cosmici su rivelatori risonanti sferici e di grande volume, progettazione di un sistema di veto per mitigarne l'effetto.

Progettazione, sviluppo e realizzazione della misura dell'effetto termoacustico indotto da un fascio di elettroni a bassa energia su di una sbarra di alluminio 5056.

Formazione

Università degli Studi di Roma 'La Sapienza'

laurea, fisica, fisica · (1985 - 1993)

Liceo Scientifico M. Azzarita, Roma

diploma di maturità scientifica · (1980 - 1985)