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Simonetta Marcello

Curriculum Vitae

First Name/ Family Name Simonetta Marcello

Nationality Italian

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https://www.fisicamagistrale.unito.it/do/docenti.pl/Show?_id=smarcell#tab-profilo

Working position

2011 to date Full Professor of Experimental Physics at University of Torino, Department of Physics, Torino, Italy

2001 – 2011 Associate Professor at Department of Experimental Physics, University of Torino

1988 – 2001 Researcher at INFN (National Institute of Nuclear Physics), Sezione di Torino, Italy

2009 – 2010 On Sabbatical leave at Kyoto University (Japan) – 10 months fellowship by Japan Society for the Promotion of Science (JSPS)

2001 to date Associate Researcher at INFN, Sezione di Torino

Education

1989 Ph.D in Physics (subject: Nuclear and Particle Physics), University of Torino - Italy

1985 Degree in Physics, University of Cagliari (Italy)

Institutional appointments at the University of Torino

2019 to date Contact person on GDPR for the Department of Physics

2013 to date Member of the Faculty of the Ph.D School in Physics and Astrophysics

2013 – 2015 Deputy-coordinator of the Guidance, Tutoring and Job Placement Committee of the School of Natural Sciences

2013 – 2015 Representative for the School of Natural Sciences at the Guidance, Tutoring and Job Placement Committee of the University

2001 – 2012 Coordinator and then President of the Stages & Job Placement Committee at the Faculty of Mathematical, Physical and Natural Sciences

2001 – 2012 Coordinator of the Stages & Job Placement Committee for the Bachelor and Master Degree in Physics

2003 – 2012 Member of the Steering Committee for the Bachelor and Master Degree in Physics

2003 – 2012 Member of the Audit Committee for the Bachelor and Master Degree in Physics

Other appointments

- 2003 - 2021** Referee of the National Scientific Committee III (on Nuclear Physics) at INFN
- 2012 to date** Referee for ANVUR (Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca)
- 2003 to date** Expert for VI and VII Framework and HORIZON2020 Programmes of European Union - on Nuclear Physics and Fundamental interactions and fields” of Physical Sciences (Research Infrastructure and Future and Emerging Technologies)
- 1999-2003** Representative of the Research staff and Associates at INFN, Sezione di Torino, in the National assembly

Teaching

- 2018 to date** Laboratory of Nuclear and Sub-nuclear Physics I for the Master Degree in Physics
- 2011 – 2017** Introduction to Nuclear and Sub-nuclear Physics with Laboratory for the Degree in Physics
- 2001 – 2011** Laboratory V (on Modern Physics) for the Degree in Physics
- 2011 to date** Physics for the Bachelor Degree in Chemistry and Chemical Technologies
- 2009** Intensive Lectures, Strangeness Nuclear Physics with FINUDA, Kyoto University (Japan)
- 2001 – 2008** Physics for the Bachelor Degree in Industrial Chemistry
- 2001 to date** Tutor of many thesis of Bachelor and Master Degree in Physics and Supervisor of PhD thesis
- 1988 - 2000** Co-tutor of many thesis of Bachelor and Master Degree in Physics and co-supervisor of PhD thesis

Research Activity

- 2014 to date** **BELLE II Experiment** at KEK (Tsukuba-Japan) – <https://www.belle2.org> Study of bottomonium and hadron physics in e+e- collisions and new physics beyond the Standard model
Member of the team for the construction and tuning of the TOP detector for particle ID (task 2.3 WP2 - EU grant No. 644294) (task 2.3 WP2 - EU grant No. 644294)
- 2013 to date** **BESIII Experiment** at IHEP (Beijing-China) – <http://bes3.ihep.ac.cn>
Study of charmonium and hadron physics in e+e- collisions.
Member of the team for the construction of an inner tracker detector (CGEM) based on GEM technology (WP3 - EU grant No. 645664)
- 2013 – 2016** Responsible of the readout electronics and the development of a custom ASIC for the new CGEM detector
- 1985 – 2016** Responsible of specific tasks (Trigger, Electronics, Run Coordinator) in several international Collaborations
- 2011 – 2012** **SuperB Experiment** (Frascati-Italy) – stopped at design phase
Study of bottomonium and hadron physics in e+e- collisions.
Member of the team for the front end electronics of the Silicon Photomultipliers of the Muon detector and proposer of a study of kaonic nuclear states in the bottomonium (1S,2S,3S) decays
- 2003 – 2017** **PANDA Experiment** at GSI (Darmstadt-Germany) – <https://panda.gsi.de/>
Study of hadron physics in proton-antiproton collisions (c.m. energy 2.2-5.5 GeV).
Member of the team for the construction of a Silicon Pixel Vertex detector.
Member of the Collaboration Board as representative of Torino University for a few years
- 2002 – 2016** **E05, E13, E19 at J-PARC** at J-PARC (Tokai-Japan) – <https://j-parc.jp/Hadron/en/index.html>
Study of Ξ -hypernuclei, Hypernuclear γ -Spectroscopy and Pentaquark

- 1991 – 2010 FINUDA at DAFNE** (Frascati-Italy) (1991-2010) –
<http://www.lnf.infn.it/esperimenti/finuda/finuda.html>
 Study of Lambda hypernuclear physics and Deeply Bound Kaon States
 Responsible of the Trigger electronics for the selection of the events and member of
 Data Acquisition team
- 1997 – 2001 COSY-TOF at COSY** (Jülich-Germany) –
 Study of Associated Strangeness Production in proton-proton collisions.
 Member of the Collaboration Board. Principal Investigator of this experiment in the National
 Scientific Committee III at INFN.
- 1986 – 1996 OBELIX PS201 at CERN** (Geneva-Switzerland) – <http://cds.cern.ch/record/39263>
 Study of Antinucleon-Nucleon Interaction Dynamics and Meson Spectroscopy in the
 light meson sector at the Low Energy Antiproton Ring (LEAR)
 Responsible of the Trigger electronics for the selection of the events and member of the team
 for the construction of the Time-of-Flight (TOF) detector based on plastic scintillators
 Run Coordinator (1994-1996)
- 1986 – 1993 FENICE at ADONE** (Frascati-Italy) – <https://www.lnf.infn.it/esperimenti/fenice.html>
 Study of Neutron and Proton Time-like Form Factors
 Member of the team for the construction of the neutron detector based on plastic scintillators
- 1985 – 1988 ANTIN PS178 at LEAR - CERN** (Geneva-Switzerland) – <http://cds.cern.ch/record/5662?ln=bg>
 Study of Antineutron Physics at the Low Energy Antiproton Ring (LEAR)
 Member of the team for the construction of a neutron tagging detector based on plastic scintillators

Publications

ORCID: [0000-0003-4144-863X](https://orcid.org/0000-0003-4144-863X)

1985 to date: Author or co-author of more than 600 cited papers in international journals and conference proceedings

2008 to date: articles=497, citations= 7838, H-index=44, Scopus and/or WOS source

Complete list of publications can be obtained from INSPIRE, the High Energy Physics Literature Database

<https://inspirehep.net>

<https://inspirehep.net/authors/998866>

Public Engagement

- 2023** Co-organizer of the exhibition “LISE CHI ? Lise Meitner, la scienziata che non perse mai la propria umanità” in Torino <https://www.df.unito.it/go/lise>
- 2022** Participation at I4 Virginia Tech Residency for Improvisation, Inspiration, Incubation, and Immersion at VTech University, Blacksburg (Virginia), USA <https://icat.vt.edu/i4-bio.html>
<https://icat.vt.edu/events/2022/07/i4---virginia-tech-residency-for-improvisation--inspiration--inc.html>
- 2021** Co-author with Grazia Dentoni (actress and director) of the theatrical piece “Le Sorelle del Cielo”, about Women in Astronomy from ancient times
https://mediaspace.unipd.it/media/Giornata%20donne%20e%20scienza%202023/1_w90tgp0o
- 2021** Participation to round table Donne di Co-Scienza - Chien-Shiung Wu, PELab,
 online event with students of Secondary Schools, Università di Torino, March 2021,

<https://www.unito.it/eventi/tavola-rotonda-donne-di-co-scienza>

2020 Co-author of the theatrical piece “La Forza Nascosta. Scienziate nella Fisica e nella Storia”

<http://laforzanascosta.to.infn.it/>

“The Hidden Force. Women in Physics and History” <https://indico.cern.ch/event/1228843/>

2007 Co-author of two DVDs “Le professioni del Fisico” (Physicist Professions) and “Il Fisico per le Aziende” (The Physicist for the Enterprises) funded by the National Project “Lauree scientifiche” (Scientific Degrees)