

# Curriculum vitae of Dr. Pierluigi Casolaro

## ✓ PERSONAL INFORMATION

First name and last name: Pierluigi Casolaro  
Nationality: Italian  
Languages: Italian (mother tongue), English (full professional proficiency), German (limited professional proficiency), French (elementary proficiency)  
Professional address: Department of Physics “Ettore Pancini”, University of Naples Federico II, Complesso Universitario di Monte S. Angelo, I-80126, Napoli, Italy  
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## ✓ PROFESSIONAL EXPERIENCE

14 Dec 2023 - present - Assistant Professor (RTDa), Department of Physics “Ettore Pancini”, University of Naples Federico II, Italy  
1 Sep 2023 - 13 Dec 2023 - Assistant Professor (RTDa), Gran Sasso Science Institute (GSSI), Italy  
1 Apr 2020 - 31 Aug 2023 - Postdoc, Laboratory for High Energy Physics (LHEP), University of Bern, Switzerland  
1 Apr 2019 - 31 Mar 2020 - Postdoc, National Institute for Nuclear Physics (INFN), Italy  
1 Nov 2015 - 28 Jan 2019 - PhD student in physics, University of Naples Federico II, Italy  
3 Aug 2015 - 31 Oct 2015 - Undergraduate research fellow, INFN, Italy

## ✓ EDUCATION

28 Jan 2019 - PhD in Physics, University of Naples Federico II  
- Mark: awarded with honors and label of “Doctor Europaeus”  
- Thesis: “Innovative detection methods for radiation hardness”  
20 May 2015 - Master Degree (MSc) in Physics, University of Naples Federico II  
- Mark: 110/110 cum laude  
- Thesis: “Stopping power of water for protons in the energetic range 1-4 MeV”  
20 Jul 2012 - Bachelor Degree (BSc) in Physics, University of Naples Federico II  
- Mark: 106/110  
- Thesis: “Study of the isospin effects on nuclear level densities of exotic nuclei”

## ✓ MANAGEMENT, FUND RAISING AND SCIENTIFIC RESPONSABILITIES

2022 - 2023 - PI of the PROOF project (39 kCHF) funded by the Bern Center for Precision Medicine (BCPM) of the University of Bern  
2019 - 2020 - PI of the OPTORAD project (30.5 kEUR) funded by INFN TechTransfer  
2018 - 2019 - Spokesperson of 3 experiments (INSPIRED, HIGHLANDER, READ) at INFN-LNS

✓ **TEACHING AND STUDENTS' SUPERVISION**

- 2025 - present - Lecturer of the course “Fisica ed elementi di informatica”, University of Naples Federico II
- 2024 - present - Lecturer of the course “Radioactivity and radiotoxicity” for the Advanced Master SICFEu, University of Naples
- 2024 - present - Lecturer for the PhD course “Cosmic Radiation and Radiation Hardness Assessment”, GSSI and Univ. of Padua (National PhD program)
- 2025 - present - Supervision of PhD student, Univ. of Padua (National PhD program)
- 2020 - present - Supervision of students' thesis at University of Bern (5) and University of Naples (2)
- 2023 and 2022 - Co-responsibility for the Lab course “Physikalisches Praktikum”, University of Bern
- 2023 and 2022 - Co-responsibility for the Lab course “Modern Physics”, University of Bern
- 2022 and 2021 - Assistant for the Lab course “Modern Physics”, University of Bern.
- 2021 and 2020 - Assistant for the Lab course “Physikalisches Praktikum”. University of Bern
- 2016 - 2018 - Assistant for the Lab course “Physics Laboratory”, University of Naples Federico II

✓ **GRANTS AND AWARDS**

- 2023 Valentin T. Jordanov Radiation Instrumentation Travel Grant (1500 USD)
- Research Grant 2022 (5000 CHF) from the Scientific Association of Swiss Radiation Oncology (SASRO)
- IEEE Emilio Gatti and Franco Manfredi best Ph.D. Thesis Award in Radiation Instrumentation, Dec 2019
- University of Bern Travel Grant for Postdocs (4764 CHF)
- 3 IEEE NSS MIC Conference Trainee Grants (up to 600 USD/conference) granted in 2023, 2021, and 2019
- 2019 Outstanding Reviewer Award for European Journal of Physics
- Young Investigator Award (500 EUR) for European Radiation Research Society Annual Meeting, Sep 2017

✓ **PATENTS**

- International Patent n. PCT/IB2019/050098: “Method and system for real-time determination of characteristics of radio-chromic films”. 18 Jul 2019
- Italian National Patent n. 102018000000652 “Metodo e sistema di determinazione di caratteristiche di pellicole radio-cromiche in tempo reale”. 9 Jan 2018. Extended to PCT (see above).

✓ **REVIEWING OF SCIENTIFIC PROJECTS AND ARTICLES**

- Reviewer for a Discovery Grant proposal submitted to the Natural Sciences and Engineering Research Council of Canada (NSERC), Jan 2019
- Member of the Topical Advisory Panel of Electronics (I.F. = 2.9; 2022) section 'Semiconductor Devices'
- Reviewer for international scientific journals, including IEEE Trans. Nucl. Sci., Eur. J. Phys., NIM-A, Phys. Med. Biol., J. Sens., Radiat. Phys. Chem., Radiat. Meas., Electronics, Technol. Cancer Reas. Treat.

✓ **MEMBERSHIPS, VISITING POSITIONS AND OTHER RELEVANT ACTIVITIES**

- 2019 - present - Member of IEEE Nuclear and Plasma Sciences Society (NPSS)
- 2015 - present - User / Visiting Scientist at CERN
- 2015 - 2020, 2023 - present - Scientific associate of INFN (Napoli and LNGS Units)
- Nov 2023 - Visiting Researcher at TRIUMF, Vancouver, Canada
- Jan 2023 - Visiting Researcher at MGH - Medical Harvard School, Boston, USA
- 2022 - 2023 - Member of Scientific Association of Swiss Radiation Oncology (SASRO)
- Jan 2018 - Radiation Protection Expert
- 6 Nov 2017 - 6 Apr 2018 - Visiting PhD student, LHEP, University of Bern, Switzerland

Date:  
03 March 2025

Signature:  
