

Curriculum Vitae
of
Professor Fulvio Ricci

Academic career

Chronology

- 1981 University researcher of the group "General Physics"
- 1987 Associate Professor of Experimental Physics at the University of Rome *Sapienza*.
- 1994 Winner of the national selection for the "Universities of France" as Full Professor (section "*Constituantes élémentaires*").
- 2000 Full Professor of Experimental Physics, at the University of Rome *Sapienza*.
- 2022 INFN *Senior scientist*
- 2023 Professor Emeritus of Experimental Physics, at the University of Rome *Sapienza*.

Teaching activities

- Courses held

for undergraduate students in Physics

Experimentation of Physics II, General Physics I and II
Electricity and Magnetism, Laboratory of Thermodynamics,
Electromagnetism, Thermodynamics and Laboratory

for students of master's degrees in Physics and Astronomy and Astrophysics,

Experimental Gravitation.

- Author of the textbooks

Experimental Gravitation

Introduction to Vacuum Physics and Technology

Awards

- Award of the Faculty of Sciences of *Sapienza* University *Excellence for teaching* a.a. 2013/2014,
- Medal of the University of Rome *Sapienza*, awarded on March 1, 2016 for the important scientific results achieved
- Roma Urbis Universalis Award 2016 for intense scientific activity
- Breakthrough Prize for the direct detection of Gravitational Waves 2016
- Gruber Cosmology Prize 2016 for the first detection emitted from the collision of two black holes
- Columbus-Rotary International Award delivered to the *spokesperson* for the Virgo project
- *Commendatore della Repubblica Italiana* for scientific merits
- Award "The Reasons for the New Politics" XVI edition 2018" awarded for scientific merits by the association "The Dawn of the New Millennium"

Academic and Professional Highlights:

- *Publications and Impact:* Over 400 publications in international refereed journals, h-index of 130 (NASA/ADS database).
- *Conference Leadership:* Invited to present and chair numerous sessions at international conferences. Organizer of conferences and specialized meetings on gravitational wave experiments.
- *Advisory Roles:* Member of the Program Advisory Committee of the LIGO project (2006-2008). Referee for international projects in gravitation for high-tech research agencies.

Key Contributions

- *Early Career:*
Joined the gravitational waves group of Professors E. Amaldi and G. Pizzella in 1975 at IFSI laboratory, CNR in Frascati (now IAPS-INAF). Worked on a prototype gravitational wave antenna (400 kg at 4 K) and developed a new mechanical suspension system to reduce seismic background.
- *CERN and EXPLORER Antenna:*
Worked at CERN on the EXPLORER cryogenic antenna (2300 kg at 2 K) achieving significant sensitivity.
- *VIRGO Project:*
Coordinated the Sapienza/INFN Rome unit of the VIRGO project from 1995, aiming to build a 3 km interferometer near Pisa, Italy. National representative of the VIRGO project and coordinator of Work Package 2 of the UE-FP7 Einstein Telescope (ET) project (2008-2014). In 2010 he proposed installing the third generation of GW detector Einstein Telescope at the Sos Enattos site in Sardinia and led seismic and environmental noise characterisation campaigns.
- *VIRGO and LIGO-VIRGO Collaboration:*
Spokesperson of the VIRGO collaboration (2014-2017) and member of the LIGO-VIRGO Directorate.
Announced the first direct detection of a gravitational wave signal on February 11, 2016, at a press conference at the EGO laboratory in Cascina.

Other scientific Initiatives:

- *Trottola experiment:* generation and detection of a dynamical Newtonian near field
- *Back Action Evading system:* experimental study of a classical equivalent of a quantum non demolition detector
- *Acoustic Emission and Absorption:* noise study and optimization of elements of the VIRGO seismic superattenuator

- *Edoardo Amaldi Centre of Excellence*: Promoted research at the Edoardo Amaldi Centre for gravitational wave physics and astrophysics, University of Rome Sapienza.
- *SAR-GRAV Laboratory*: Co-founder of the SAR-GRAV Experimental Gravitation Laboratory at the Sos-Enattos mine in Sardinia, and member of its scientific council.
- *ARCHIMEDES Collaboration*: Contributed to the formation of the international collaboration for measuring the weight of the electromagnetic vacuum.

Professional Memberships and Leadership:

- *International Astronomical Union*: Member.
- *Italian Society of General Relativity and Gravitation (SIGRAV)*: Former President.
- *European Physical Society – Gravitation Section*: Steering Board member at the foundation epoch of the section.