

Michele Ronco

Curriculum Vitae

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Personal Information

Date and
place of birth

Nationality

Sex

Tax code

Postal
address

Education and training

- March 2015–
July 2015 **Advanced courses for talented students**, *University "La Sapienza"*, subjects: Quantum Gravity Phenomenology, advisor: Prof. Amelino-Camelia, Rome.
- December 2014–
July 2015 **Working on Master Thesis: "Deformed Relativistic Transformations for Loop Quantum Gravity: a possible role for κ -Minkowski"**, *University "La Sapienza"*, subjects: Noncommutative spacetime, Planck-scale deformed relativistic symmetries (DSR), Loop Quantum Gravity, Quantum deformations of the hypersurface deformation algebra, advisor: Prof. Amelino-Camelia, Rome.
- September 2013–
July 2015 **Master student in Theoretical Physics**, *University "La Sapienza"*, Rome.
- 2011–2013 **Advanced courses for talented students**, *University "La Sapienza"*, subjects: Electromagnetism, Quantum Foundations and Quantum Information, advisors: Prof. Massimo Testa, Prof. Francesco Lacava and Prof. Fabio Sciarrino, Rome.
- 2010–2013 **Bachelor student in Physics**, *University "La Sapienza"*, Rome.
- 2010 **RIMUN**, *Model United Nations at High School "Farnesina"*, Rome.
- 2009 **EGMUN**, *Model United Nations at "Espergaerde Gymnasium"*, Espergaerde, Denmark.
- 2008 **RIMUN**, *Model United Nations at High School "Farnesina"*, Rome.
- 2005–2010 **High School focusing on humanities**, *"Torquato Tasso"*, Rome.

Qualifications

- July 2015: **Master degree in Physics**, *"La Sapienza" University of Rome*, thesis on: *"Deformed Relativistic Transformations for Loop Quantum Gravity: a possible role for κ -Minkowski"*, with final marks 110/110 cum laude (first class honours degree), advisor: Prof. Giovanni Amelino Camelia.
- September 2013: **Bachelor degree in Physics**, *"La Sapienza" University of Rome*, thesis on: *"Quantum Decoherence"*, with final marks 110/110 cum laude (first class honours degree), advisor: Prof. Silvano Petrarca.
- July 2010: **High School Diploma**, *High School "Torquato Tasso", Rome*, with final marks 100/100 (full marks).

Scholarships and Awards

- November 2016–October 2018: **PhD Fellowship**, *Selected, in 1st position with the score of 119.5/120 among 70 participants, for one of the 15 PhD positions*, awarded by *"La Sapienza" University, Rome*.
- March 2015–October 2015: **"Enrico Persico"**, *Scholarship for the top four Master students in Physics enrolled in one of the three universities of Rome*, awarded by *"Accademia Nazionale dei Lincei"*, Rome.

Scientific experiences and activities

- June 2016–October 2016: **Visiting scientist**, at *Department of Theoretical Physics of the University of Valencia, Valencia*.
Working on *phenomenological signatures of $f(R,Q)$ modified theories of gravity in the Palatini approach* in collaboration with Dr. Gonzalo Omlo Alba and his research group.
- February 2014–January 2015: **Laboratory Assistant**, at *"Bruno Pontecorvo" Laboratory of Physics, Rome*.
Organizing laboratory activities and attending to didactic trainings for undergraduate students in Physics.
- March 2014–July 2014: **Laboratory of Nuclear and Subnuclear Physics**, at *"Guglielmo Marconi" Laboratory, Dept. of Physics, Rome*.
Characterization of resistive MicroMegas detector (trigger and data acquisition system) and ROOT data analysis.

Conferences (without Contribution)

- July 12-18 2015: **MG14**, *The Fourteenth Marcel Grossmann Meeting on Recent Developments in Theoretical and Experimental General Relativity, Gravitation, and Relativistic Field Theory*, Rome, Italy.
Sapienza University.
- July 20-23 2015: **QGM**, *Quantum Gravity Meeting focused on phenomenology*, Rome, Italy.
Sapienza University.

Conferences, Workshops and Schools (with Contribution)

June 6-8 2016 **FLAG Meeting**, *second Flag Meeting "The Quantum and Gravity"*, Trento, Italy.
University of Trento.

Contribution: " *Spacetime-noncommutativity regime of Loop Quantum Gravity*"
<http://www.tifpa.infn.it/wp-content/uploads/2016/06/ronco.pdf>

April 4-5 2016 **BRITGRAV16**, *the 16th British Gravity Meeting*, Nottingham, England.
University of Nottingham.

Contribution: " *Spacetime-noncommutativity regime of Loop Quantum Gravity*"
<https://sites.google.com/site/britgrav16/program>

Invited seminars

September 21 2016 **Colloquium**, *Spacetime-noncommutativity regime of Loop Quantum Gravity*, Valencia, Spain.

University of Valencia and IFIC.

<http://indico.ific.uv.es/indico/conferenceDisplay.py?confId=2777>

May 9 2016 **Colloquium**, *Spacetime-noncommutativity regime of Loop Quantum Gravity*, Madrid, Spain.

Instituto de Estructura de la Materia (CSIC)

<http://loops11.iem.csic.es/madrid-cosmos/posters/cartel-MC-160509.pdf>

December 10 2015 **Family Meeting**, *A possible role for κ -Minkowski in LQG*, Rome, Italy.
Sapienza University.

Publications

- G. Calcagni, M. Ronco, *Deformed symmetries in noncommutative and multifractional spacetimes*, arXiv:1608.01667 [hep-th].
- M. Ronco, *On the UV dimensions of Loop Quantum Gravity*, **Adv. High Energy Phys.** **2016 (2016) 9897051**.
- G. Amelino-Camelia, M. M. da Silva, M. Ronco, L. Cesarini, O. M. Lecian, *Spacetime-noncommutativity regime of Loop Quantum Gravity*, arXiv:1605.00497 [gr-qc].

Languages

Mother tongue **Italian**

Other language **English B2+** *very good written and oral knowledge of the English language, honed with short breaks in England and Denmark and with many English courses.*

Other language **Spanish** *basic knowledge.*

Computer skills

Operative systems Windows, MacOS, Unix

Programs Microsoft Office, R Project, Power Point

Typesetting systems LaTeX, Tex

Internet Explorer, Safari, Chrome, Mail

Programming C, C++
languages

Michele Reano