

# Curriculum Vitae of Filippo Colomo

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## Personal data

Position: Researcher

Institution: Istituto Nazionale di Fisica Nucleare (INFN)

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## Education

Master Degree (Laurea) in Physics, with Honours, from University of Florence, Italy, October 14, 1986.

PhD in Physics from University of Florence, Italy, October 1990.

## Employment

Permanent Researcher at Istituto Nazionale di Fisica Nucleare, Sezione di Firenze, since December 1993;

Post-Doctoral fellow at the Department of Physics of University of Florence, 1992-1993;

Post-Doctoral fellow at Niels Bohr Institute and Nordita, Copenhagen, 1990-1992.

Post-Doctoral fellow at INFN, Sezione di Firenze, 1990.

## Research

Area of research: Mathematical Physics, and more specifically: exact results in statistical mechanics, quantum integrable and exactly solvable systems, with applications to combinatorics and particular interest to the ‘limit shape’ phenomena.

Other research interests: History and Philosophy of Physics, resulting, among others, in the book: *The Birth of String Theory*, A. Cappelli, E. Castellani, F. Colomo, P. Di Vecchia (eds.), Cambridge University Press (2012).

Author of over 40 papers in international scientific journals and of two edited books. Complete list of publications is available at: <http://theory.fi.infn.it/colomo/papers.html> and <http://theory.fi.infn.it/colomo/others.html>

## Academic visits

Filippo Colomo has visited several university or international scientific institutions, such as: ECM at University of Barcelona; Niels Bohr Institute in Copenhagen; ICTP and SISSA in Trieste; Euler International Mathematical Institute in Saint Petersburg; PDMI-Steklov in Saint Petersburg; CRM in Montreal; Courant Institute at NYU; Schrodinger Institute in Wien, Institut Poincaré in Paris, MSRI in Berkeley, LPTHE at Université Pierre et Marie Curie in Paris; Institute of Applied Mathematics in Bonn, Simons Center for Geometry and Physics in Stony Brook; LIPN at Université Paris Nord; ICERM at Brown University in Providence.

## Seminars and conferences

Filippo Colomo has attended over 100 international conferences or workshops, most of times also contributing with a talk. He has given about 50 invited talks at international conferences or workshops, or at international scientific institutions and universities. Some recent selected invited talks are available at <http://theory.fi.infn.it/colomo/talks.html>

## Teaching

As an INFN Researcher, Filippo Colomo has no teaching duties. Nevertheless, upon request, he has given several courses, both at undergraduate and graduate levels:

*General Physics I (Mechanics and thermodynamics)*, Faculty of Engineering, University of Florence (1996-97 and 1997-98);

*Advanced Quantum Field Theory*, PhD in Physics, University of Florence (2001, 2004, 2005);

*Integrable and Exactly Solvable Models* PhD in Physics, University of Florence (2007, 2010, 2014, 2019);

*Random Matrix Models* PhD in Physics, University of Florence (2007, 2009, 2011, 2017,2020);

*Mathematical Methods for Theoretical Physics* Master in Physics, University of Florence (since 2014).

## Other activities

Member of the Organizing Committees for

- 11 international scientific conferences and workshops;
- a semester program on ‘*Statistical Mechanics, Integrability and Combinatorics*’, held at Galileo Galilei Institute for Theoretical Physics (GGI), in Florence, on Spring 2015;
- a semester program on ‘*Randomness, Integrability and Universality*’, to be held at Galileo Galilei Institute for Theoretical Physics (GGI), in Florence, on Spring 2022;
- the graduate school on ‘*Statistical Field Theories*’, held yearly at Galileo Galilei Institute for Theoretical Physics (GGI), since 2014. Web: <http://theory.fi.infn.it/SFTschool/>

Organizer and coordinator of the *Interdisciplinary Seminar on Philosophy and Physics*, of the University of Florence (2004-present). Web page:

<http://www.lettereifilosofia.unifi.it/vp-198-seminario-interdisciplinare-fisica-filosofia.html>

‘*Esperto*’ for research grants referrals and other scientific evaluations for the Science and Education Department of the Italian Government (2010-present).

‘*Expert evaluator*’ for research grants evaluation for the National Council for Scientific Research of Romania (2011-present).

‘*Expert evaluator*’ for research grants evaluation for the Narodowe Centrum Nauki (National Science Center) of Poland (2013).

## Fellowships and grants

National Research Grant E44HRF ‘*Low-dimensional quantum systems:theory, experiments and simulations*’, PRIN 2017, coordinator: P Calabrese (2019-2022).

European Network QICFT: ‘*Quantum Integrability, Conformal Field Theory and Topological Quantum Computation*’, Marie Curie Actions IRSES (2011-2015).

National Research Grant JHLPEZ ‘*Fisica Statistica dei Sistemi Fortemente Correlati all’Equilibrio e Fuori Equilibrio: Risultati Esatti e Metodi di Teoria dei Campi*’, PRIN 2007, coordinator: G. Mussardo (2008-2010).

European Network INSTANS: ‘*Interdisciplinary Statistical and Field Theory Approaches to Nanophysics and Low Dimensional Systems*’, European Science Foundation (2006-2010).

National Research Grant SINTESI ‘*Singolarità, Integrabilità, Simmetrie*’, PRIN 2004, coordinator: F. Calogero (2004-2006).

European Network EUCLID: ‘*European Collaboration Linking Integrability with other Disciplines*’, EC program for Training and Mobility of Researchers (2002-2006).

European Network ‘*Integrability, Non-perturbative Effects, and Symmetry in Quantum Field Theory*’, EC program for Training and Mobility of Researchers (1997-2000).

INFN research grant FI11 on ‘*Statistical Mechanics and Quantum Field Theory*’, INFN commission for Theoretical Physics (1996-current).

European Network ‘*New Methods in Quantum Field Theory: Infinite Symmetries in Statistical Mechanics and String Theory*’, EC program for Human Capital and Mobility (1993-1996).

Florence University Post-Doctoral Fellowship (1992-1993)

‘Angelo Della Riccia’ Post-Doctoral Fellowship, Niels Bohr Institute, (1991-1992)

INFN Post-Doctoral Fellowship in Theoretical Physics(1990-1992).

Graduate Student Fellowship, PhD in Physics, University of Florence (1987-1990).