

Florence, December 19, 2019

Curriculum Vitae of Andrea Cappelli

Personal data

Place and date of birth Florence, Italy; October 27, 1958.
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Home address Via del Proconsolo 11, I-50122 Firenze, Italy; tel. +39-055-216452.
Family status Married, one son.

Academic position

Since February 2001 Director of Research at the Istituto Nazionale di Fisica Nucleare (INFN), section of Florence.

Dates

June 1983 Completion of undergraduate studies in physics at the University of Florence: *Italian Laurea* degree obtained with honors. Title of the thesis: *Quantum Chromodynamics and Sum Over Surfaces* (supervisor M. Ciafaloni).
November 1986 Completion of the PhD studies in Theoretical Physics, Florence. Title of the thesis: *On the Phase Structure of Lattice Spin and Gauge Theories* (supervisors M. Ciafaloni, C. Itzykson, J. B. Zuber).
March 1986 – Oct. 1988 Postdoc fellow of the Service de Physique Théorique, CEA Saclay, France.
November 1988 Research permanent position at INFN, Florence.
Febr. 1989 – Febr. 1990 Postdoc fellow of the Niels Bohr Institut, Copenhagen.
Jan. 1991 – Dec. 1992 Postdoc fellow of the Theory Division at CERN, Geneva.
March 1996 First Researcher position at INFN, Florence.
February 2001 Director of Research position at INFN, Florence.

Research training

Andrea Cappelli studied theoretical physics and quantum field theory at the University of Florence with M. Ciafaloni and M. Ademollo. He specialized in mathematical methods and exact solutions of field theory with C. Itzykson and J.-B. Zuber (CEA, Paris) and with D. Friedan (Rutgers). As student and post-doc, he attended several international schools of theoretical physics, like Les Houches, Cargèse, Aspen, Erice and ICTP, Trieste.

Scientific activity

Andrea Cappelli is mainly working on quantum field theory in low dimension, conformal field theory and exact solutions, and their applications to condensed matter physics and statistical mechanics. His main achievement, with C. Itzykson and J.-B. Zuber, is the A-D-E classification of the minimal models of two-dimensional conformal field theory. He applied conformal field theory to the quantum Hall effect and studied other condensed matter systems in one and two dimensions. His present focus is on topological phases of matter.

Andrea Cappelli wrote more than 60 papers in international scientific journals and edited two books. The complete list of papers can be found in the electronic archives¹. These publications received about 3000 citations, with h index equal to 24. Two papers received more than 600 citations.

Teaching activity

Andrea Cappelli teaches a course of advanced quantum field theory of the “Laurea Magistrale” in physics at the University of Florence. Since 2001, he has been a member of the board of teachers of the PhD school, in which he regularly teaches monographic courses. He has been advisor of seven PhD students and five master students². He has been teaching PhD courses in various universities (Genova, Roma II, Parma, Louvain, Suisse Romande).

¹See: INSPIRE, <http://inspirehep.net/> and Arxiv, <http://arxiv.org/>.

²Further details can be found in the personal web page: <http://theory.fi.infn.it/cappelli/>.

Seminars and conference talks

Andrea Cappelli has been visiting scientist of several universities abroad: for example, in the United States (Chicago, MIT, Princeton, Rutgers, Santa Barbara, Stony Brook) and Europe (Amsterdam, Cern, École Normale in Paris, Cambridge, Stockholm, Wien). Every year he presents his work to some international conferences.

Academic activity and research coordination

- Organizer of more than twenty international conferences and scientific programs in Italy and abroad³.
- Participant to five research networks of the European Community since 1992.
- Editor of the journals: *Journal of High-Energy Physics (JHEP)* and *Journal of Statistical Physics (JSTAT)*.
- 1998-2016 Coordinator of three INFN national research initiatives: the most recent is *SFT, Statistical Field Theory, Low-Dimensional Systems, Integrable Models and Applications*.
- 2005-2012 and since 2018: Member of the local organizing committee of the G. Galilei Institute for Theoretical Physics, Florence⁴.
- Since 2014 Organizer of the annual PhD school *SFT – Lectures on Statistical Field Theories*, at the G. Galilei Institute, Florence.
- 2006-2013: Member of the Italian delegation to the Program Committee of the European Research Council⁵.
- Since 2000, organizer of the *Interdisciplinary Seminar on Philosophy and Physics* at the university of Florence.

³See: <http://theory.fi.infn.it/cappelli/>

⁴See: <http://www.ggi.fi.infn.it/>.

⁵See: <http://erc.europa.eu/>.