

## Andrea Sacchetti - Curriculum Vitae et Studiorum

### Personal Data

- First Name: Andrea
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  - Department of Mathematics,
  - University of Modena e Reggio Emilia
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### Academic Data

- 1988: Master in Mathematics, National Institute of Higher Mathematics (INdAM), Florence
- 1987: Degree in Mathematics, University of Modena
- 1982: Diploma in Computer Sciences, Technical school in Modena

### Positions

- 2001: Full Professor of Mathematical-Physics, Faculty of Sciences, University of Modena
- 1999-2001: Associate Professor of Mathematical-Physics
- 1990-1999: Assistant Professor of Mathematical-Physics
- 1988-1990: Computer Sciences Teacher in Technical schools in Modena

Visiting at:

- I.M.A. (Minneapolis, USA)
- E.S.I. (Wien, Austria)
- Centre de Physique Theorique (Luminy/Marseille, France)
- Newton Institute (Cambridge, UK)
- I.P.A.M. (Los Angeles, USA)
- Tohoku Univ. (Sendai – Japan)

### Teaching arguments

- Mathematical Physics
- Calculus
- Introductory courses in Statistical and Probability
- Mathematical Methods of Physics

### Languages

- Level of Knowledge of the languages:
  - Italian: mother-tongue;
  - English: good (both written and spoken);

### Research arguments

- Quantum transport in crystals
- Semiclassical methods and Mathematical methods of quantum mechanics
- Periodic differential equations
- Nonlinear Schroedinger equations
- Inverse problems
- Spectral theory of linear operators

### **Research Manager**

- Head of the national research project INdAM (Istituto Nazionale di Alta Matematica – National Institute of High Mathematics) "*Mathematical modeling and numerical analysis of quantum systems with applications to nanosciences*", years 2005 and 2006;
- Head of the national project GNFM-INdAM "*Comportamenti Classici di Sistemi Quantistici – Classical Behaviour in Quantum Systems*", years 2003 and 2004.

### **Organization of conferences and congresses**

- Modena 18 - 20 December 2003, National meeting "*Problemi Matematici in Meccanica Quantistica*".
- Bressanone 21 - 26 February 2005, First International School and Workshop on "*Mathematical Methods in Quantum Mechanics*".
- Modena 5 - 7 Ottobre 2006, National meeting "*Problemi Matematici in Meccanica Quantistica*".
- Bressanone 26 February – 3 March 2007, Second International School and Workshop on "*Mathematical Methods in Quantum Mechanics*".
- Bressanone 16 - 21 February 2009, Third International School and Workshop on "*Mathematical Methods in Quantum Mechanics*".
- Bressanone 14 - 19 February 2011, Fourth International School and Workshop on "*Mathematical Methods in Quantum Mechanics*".

### **Affiliations**

- Member of the IAMP "International Association of Mathematical Physics"
- Member of the GNFM-IndAM "Gruppo Nazionale per la Fisica Matematica"

### **Assignments**

- Member of the Scientific Board GNFM-INdAM
- Member of the "Senato Accademico dell'Università degli Studi di Modena e Reggio Emilia".
- Rapporteur of PhD Thesis at the Universities of Aix Marseille, Cosenza, Toulouse and Turin.