

## Andrea Sacchetti - Curriculum Vitae et Studiorum

### Personal Data:

- First Name: Andrea
- Family Name: Sacchetti
- Gender: Male
- Nationality: Italian
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### Academic Data

- 1988: Master in Mathematics, National Institute oh 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)
- University of Sendai (Sendai, Japan)

### Teaching arguments

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

### Languages - Level of Knowledge of the languages:

- Italian: mother-tongue;
- English: good (both written and spoken);

### Research arguments

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

Research publication. Author of more than 60 research papers published on peer review international scientific journals. Author of two chapters of book

#### 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 Dicembre 2003, National Congress “Problemi Matematici in Meccanica Quantistica”.
- Bressanone 21 - 26 Febbraio 2005, First International School and Workshop on “Mathematical Methods in Quantum Mechanics”.
- Modena 5 - 7 Ottobre 2006, National Congress “Problemi Matematici in Meccanica Quantistica”.
- Bressanone 26 Febbraio – 3 Marzo 2007, Second International School and Workshop on “Mathematical Methods in Quantum Mechanics”.
- Bressanone 16 Febbraio – 21 Febbraio 2009, Third International School and Workshop on “Mathematical Methods in Quantum Mechanics”.
- Bressanone 14 Febbraio – 19 Febbraio 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”
- Member of the Scientific Board GNFM-INdAM (2009-2017)-
- Member of the “Senato Accademico dell’Università degli Studi di Modena e Reggio Emilia” (2010-2015).
- Rapporteur of PhD Thesis at the Universities of Aix Marseille, Cosenza, Padova, Toulouse and Turin.
- Head of the Department of Physics, Informatics and Mathematics, from November 1st, 2015 to October 31, 2018.
- Member of the “Accademia Nazionale di Scienze, Lettere ed Arti di Modena”
- Member of the Advisory Panel of Journal of Physics A: Mathematical and Theoretical

Modena, June 21, 2024