

CURRICULUM VITAE

Born 20 April 1960, Italian Citizen

EDUCATION

1984, Master Degree in Physics: University of Trieste (Italy)

1988, Ph.D. in Mathematical Physics: International School for Advanced Studies (SISSA), Trieste (Italy)

POSITIONS

2014-2018, Associate Professor of Theoretical Physics: Department of Physics, University of Trieste (Italy)

1990-2013, Research Staff Member: Department of Theoretical Physics, University of Trieste (Italy)

1998, Research Visitor: Institute for Theoretical Physics, University of Leuven (Belgium)

1990, Post Doc: Dublin Institute for Advanced Studies, Dublin (EIRE)

1989, Post Doc: Institute for Theoretical Physics, University of Vienna (Austria)

RESEARCH INTERESTS

Many-body open quantum systems

Quantum correlations in mesoscopic systems

Entropy and complexity in quantum dynamics

INTERNATIONAL VISIBILITY

Author of 136 publications in international journals with 1793 citations (ISI Web of Science) and h factor: 23 (ISI Web of Science)

Books

F. Benatti: *Deterministic Chaos in Infinite Quantum Systems* (Trieste Notes in Physics, Springer-Verlag 1993)

F. Benatti: *Dynamics, Information and Complexity in Quantum Systems* (Theoretical and Mathematical Physics, Springer-Verlag 2009)

Co-editor of the following Books and Special Issues

Irreversible Quantum Dynamics, F. Benatti, R. Floreanini eds., *Lec. Notes. Phys.* 622, Springer 2003

J. Phys. A 40 (2007), Special Issue, F. Benatti, M. Fannes, R. Floreanini and D. Petritis eds.

Quantum Information, Computation and Cryptography, F. Benatti, M. Fannes, R. Floreanini and D. Petritis eds, *Lec. Notes Phys.* 808, Springer 2010

Loss of coherence and memory effects in quantum dynamics, F. Benatti, R. Floreanini and G. Scholes eds, *J. Phys. B: At. Mol. Opt. Phys.* 45 (2012) 150201

Co-organizer of the following Schools and Workshops

Quantum Entropies: Dynamics and Information, SISSA, Trieste, 14-18 December 2001

Irreversible Quantum Dynamics, ICTP, Trieste, 29 July-2 August 2002

Kolmogorov's Legacy in Physics: One Century of Chaos, Turbulence and Complexity, ICTP, Trieste, 8-17 September 2003

Theory and Technology in Quantum Information, Communication, Computation, Cryptography, ICTP, Trieste, 12-23 June 2006

New Trends in Quantum Dynamics and Entanglement, ICTP, Trieste, 14-25 February 2011

Quantum Africa Conference 3: Advances in Quantum Sciences, 22-26 September 2014, Mohammed V Agdal University, Rabat, Marocco

Trieste Quantum Days 2017, SISSA, 20-24 February 2017, Trieste, Italy

Oral contributions to 34 international congresses, to 27 as an invited speaker

Editor of Open Systems and Information Dynamics

Referee of 30 physical and mathematical international journals

RESEARCH MANAGEMENT

Italian PRIN 2002: Classical, Quantum and Stochastic Dynamical Systems (Local Unit Coordinator)

Italian PRIN 2004: Classical, Quantum and Stochastic Systems with Infinitely Many Degrees of Freedom (Local Unit Coordinator)

Italian PRIN 2006: Quantum Noise in Mesoscopic Systems (Local Unit Coordinator)

Local responsible for the INFN national research project Quantum: 2014-2018

DIDACTICS

Teaching Courses

Mathematical Methods for Physics (72 hours, 2nd year)

Statistical Mechanics (48 hours, 4th year)

Introduction to Quantum Information (48 hours, 4th year)

Graduated students: 22

PhD students: 13