

Curriculum Vitae of Enrico Brambilla

Born in Orsay (France), March 23th, 1968

Università degli Studi dell'Insubria, Dipartimento di Scienza e Alta Tecnologia

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Current position: (from May 2013): Researcher (Ricercatore RUTD) at the University of Insubria, Dipartimento di Scienza e Alta Tecnologia, Como.

PREVIOUS ACADEMIC POSITIONS

- **Feb. 2012 - Apr. 2013:** Post-doctoral position with teaching contract at the University of Insubria
- **Dec. 2009 - Sept. 2012:** Post-doctoral fellowship at the University of Insubria (grant from EU project HIDEAS: High-dimensional entangled system)
- **Dec. 2008 - Nov. 2009:** Researcher position at the University of Insubria (granted from EU project HIDEAS).
- **Jan. 2007 - Nov. 2008:** Post-doctoral fellowship at the University of Insubria (grant from PRIN-MIUR project)
- **2001-2007:** Several post-doctoral fellowships at the University of Insubria (grant from Istituto Nazionale di Fisica della Materia, INFN).
- **March 2000 - Dec. 2000** Post-doctoral fellowships in Paris, Lab. Kastler – Brossel de l'Ecole Normale, Univ. P. & M. Curie. from TMR project (Training and Mobility for Researchers) QSTRUCT (research group directed by Prof. Claude Fabre).

EDUCATION AND ACADEMIC TITLES

- National Qualification as Associate Professor (Abilitazione scientifica nazionale alla funzione di professore universitario di seconda fascia nel settore concorsuale 02/B2 - Fisica Teorica della Materia, dec. 2013).
- Contract Professor at the University of Insubria since 2008 (see teaching activities).
- PhD degree in Physics at the Università degli Studi di Milano (1996-1999), Thesis on "Quantum Images in an Optical Parametric Amplifier", Supervisor Prof. Luigi Lugiato
- Physics degree at the Università degli Studi di Milano (Feb. 1995). Thesis on "formation of spatial structures in a laser with an injected signal", Supervisor: Prof. Luigi Lugiato

PARTICIPATION TO NATIONAL AND INTERNATIONAL PROJECTS

- EU project TMR QSTRUCT "Quantum Structure", 1996-2001
- EU project FET-open QUANTIM "Quantum Imaging", 2001-2004
- National project PRIN MIUR "Studio teorico di dispositivi basati sull'entanglement quantistico", 2003-2005
- National project PRIN MIUR "Fasci gemelli in applicazioni di imaging quantistico e metrologia", 2005-2007
- National project FET-open HIDEAS "High-Dimensional Entangled System", 2008-2011

TEACHING AND OTHER ACTIVITIES

- **1998-1999:** Teaching tutor for the course of general physics (Mechanics, thermodynamics and electromagnetism. 1998-1999) at the Polytechnic of Milan, at the Faculty of Natural Science of Milan (1999-2000) and at the University of Insubria, Como (2001-2002)
- Regular teaching activity at the university of Insubria since 2008:
 - Course of General Physics at the Chemistry Faculty (2008-2010), Physics 2 (electromagnetism) at the Chemistry and Mathematics faculties (2011-2016).

- Course of “Quantum Electronics” at Faculty of Physics (2014-2016).
- Assistant supervisor of a number of Degree and PhD thesis.
- Referee of Physical Review Letters, Physical Review A, Optics Express, European Physical Journal D, Journal of Optics B: Quant. Semicl. Optics

NUMERIC AND PROGRAMMING SKILLS

- Knowledge in numerical analysis, development of parallel numerical codes for the integration of partial differential equations describing wave propagation in linear and nonlinear media.
- Stochastic simulations of quantum systems (Montecarlo) with MPI parallelization
- Webmaster of the website of the EU-project HIDEAS (www.hideas.eu)

LANGUAGES

Italian and French fluently (as mother tongue), English and German good, Spanish basic level.

PUBLICATIONS

Author of about 40 peer-reviewed publications (from which 8 Phys. Rev. Lett.) and a number of conference paper. Regular teaching activity at the Insubria University in Como. Bibliographic indicators:

- **Web of Science:** n. of citations: 1908, h-index: 18
- **Scopus:** n. of citations: 2080, h-index: 17
- **Google Scholar:** n. of citations: 2500, h-index: 19