Dottoressa Maria Grazia Carrara
Curriculum Vitae

Born in Milan. Italian citizen

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POSITION OF RESEARCH

Nov. 2013 - Nov. 2018 Research Collaboration at Statistic Department,
University of Milan. Bicocca Master Data Management.
Sep. 2004 - Nov. 2006 Winning Silsis University of Bergamo for teaching Electronic , Elettrotechnical Engineering
• Thesis supervisors Prof. G. Benedek and Prof. L.Miglio
Sept 1989 - March 1997Undergrad. Student at Physics Dep.,Milan Italy.
• Master Degree in Atomic Physics. on 28 May 1997 with Honour and Dignity of Stamp with. dissertation original theses : Rayleigh waves in Carbonium Clathrates of carbonic symmetric cubic
Supervisor: Giorgio Benedek L.Miglio Univerisity of Milan
Apr. 1997 - Aug. 1998 Post-grad collaboration at Department of Physics,
University of. Milan : Railing waves in symmetric cubic in Carbonium clathrates.

Sept1999 - Aug. 2002 Suitability. PHD. in Electric Engineering University of. Pavia. Department of. Electric Engineering

Education

February 1998. Suitability Ph.D. in Electric Engineer at University of

Pavia , Italy

• Thesis supervisors prof. G.Benedek and Prof . Miglio.

Sept 1989 - March 1997 Undergrad. Student at Physics Dep., Pavia, Italy.

Following Course as visiting guest at. Oxford London at

2007.08

• Sep. - Oct. 2000 Milan, Italy -

PREDOC, Mathematics School for preparation to Ph. D. Courses. In particular I attended the courses: Numerical Analysis, Mathematical Physics, Basis of Probability and Statistical Inference.

Languages

Computer Knowledge

Operating Systems Dos, Windows, Linux.

Programming Languages Fortran.

HTML, Javascript.

Teaching Experiences

Ac. year 1999/2016 Physics and and Electronic teacher. Scientific-technologic

course of High School,

Ac. year 2002/2003 Assistant for the course of Physics. Degree course

Ac. year 2001/2002 Assistant for the course of Phisics and. Biologic Science at University of Milan

Summary of Research Activity

My research activity began when I graduated, in 1997on a thesis about
Rayleigh waves in carbonic a symmetry cubic
, Under the super- vision of Prof. G. Benedek. Initially I studied different
way to solve the problem. The development of a theoretical method for calculating the wave propagation velocity in the anisotropic crystalline
cubic symmetry is analyzed. In particular, carbon clathrates will be studied.

International Schools

1. Second School and Workshop on “Mathematical Methods in Quantum
Mechanics”, February 26 - March 3 2015, Bressanone (BZ), Italy.
2. “School in Applications of Effective Field Theories”, 3–8 February 2003, Milan, Italy. Participation
3. “National School of Condensed Matter Physics (INFM): Basic Physics
of Nano-Structures & Quantum Calculus and Information”, 8–21 Septem- ber 2002, ISI Foundation, Villa Gualino, Torino, Italy.
4. “National School of Condensed Matter Physics (INFM): Quantum and
Nonlinear Optics”, 10–15 September 2001, ISI Foundation, Villa Gualino,
Torino, Italy.

Presentations at Workshops and Conferences

1. Frontiers in FEL Physics and Related Topics
September 8 - 14, 2007 Elba Island, Livorno, Italy, Poster Contribution.

2. Bose-Einstein Condensation
EuroConference on the New Trends in Physics of Quantum Gases September
13-18, 2003 San Feliu de Guixols, Spain,
Oral contribution: “Entanglement and radiation to atom quantum mapping
by collective recoil in Bose Einstein condensates”.

PUBBLICATIONS:

1 , M. GCarrara. Fischer Transverse effects in Collective Atomic recoil Lasing Laser Physics 17, 174 (2007).

2 , G.R.M. Robb and M.Carrara M Klinger MRossi
Propagation effects in the quantum description of collective recoil lasing
Opt. Comm. 252, 381 (2005).

3L. Cassoni, P.Fischer F. S. Klinger and MGCarrara
Collective atomic recoil in a moving Bose-Einstein condensate: From superradiance to Bragg scattering Raman
Phys. Rev. A 71, 033612 (2005).

4 M.G Carrara and M.G.A. Paris MKlinger. Fischer
Teleportation of bipartite states using a single entangled pair Phys. Lett.
A 337, 10 (2005).

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