Felice Iandoli

CONTACT INFORMATION

Laboratoire Jacques Louis Lions
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RESEARCH INTERESTS

Microlocal Analysis, Dispersive Estimates, Wave and Schrödinger Equations, Dynamical Systems, Nonlinear Dispersive PDEs, Normal Forms

CAREER AND EDUCATION

Laboratoire J.L. Lions, Sorbonne Université

Post-doctoral researcher funded by ERC ANADEL, *starting from October 1-st, 2019.*

Laboratoire J.A. Dieudonné, Université de Nice

Post-doctoral researcher funded by ERC ANADEL, *November 1-st, 2018-30 September, 2019.*

SISSA

Ph.D. in Mathematical analysis, models and applications.
The thesis has been defended on 26/09/2018, the examination has been passed *cum laude*.

- Title of the thesis: Local and almost global solutions for fully-nonlinear Schrödinger equations on the circle
- Advisors: Prof. Massimiliano Berti and Dr. Roberto Feola

University of Pisa

Master degree in mathematics, grade: 110/110 *cum laude*

- Title of dissertation: Teoria di scattering per NLS (eng: Scattering theory for NLS)
- Advisor: Prof. Nicola Visciglia

PUBLICATIONS

F. IANDOLI, R. SCANDONE, *Dispersive estimates for Schrödinger operators with point interactions in* $\mathbb{R}^3$*,* Advances in Quantum Mechanics: Contemporary Trends and Open Problems, A. Michelangeli and G. Dell'Antonio, eds., Springer INdAM Series, vol. 18, Springer International Publishing, (2017).

R. FEOLA, F. IANDOLI, *Local well-posedness for quasi-linear NLS with large Cauchy data on the circle,* Annales de l'Institut Henri Poincaré (C) Non Linear Analysis, 36(1): 119-164, 2019. 10.1016/j.anihpc.2018.04.003, (2018).

R. FEOLA, F.IANDOLI *Long time existence for fully nonlinear NLS with small Cauchy data on the circle*, accepted on Annali della scuola Normale Superiore di Pisa, DOI: 10.2422/2036-2145.201811-003 (preprint: arxiv.org/abs/1806.03437), (2019).

ATTENDED CONFERENCES

Normal forms and large time behavior for nonlinear PDE, 2015, IHES, Bures-sur-Yvette, France.

Nonlinear Waves 2016: Summer School, 2016, Centre Henri Lebesgue, Nantes, France.

Hamiltonian Dynamics, PDE's and Waves on the Amalfi coast , 2016, Maiori, Italy.

Winter School "Dynamics and PDE's", 2017, Saint-Etienne de Tinée, France.

Linear and Nonlinear Wave Phenomena: Stability, Propagation of Regularity and Turbulence, 2018, Cortona, Italy.

Quantum Resonances and Related Topics (conference in honor of André Martinez), 2019, Paris, France.

Dispersive Waves and Related Topics (conference in honor of Gilles Lebeau), 2019, Bergen, Norway.

New Trends in Propagation of Linear and Nonlinear Wave Phenomena, 2019, Erice, Sicily.

Invited Conferences

Invited speaker at:

- *Dynamics of nonlinear dispersive PDE's*, February 2018, La Thuile, Italy, Invited by Prof. Nicola Visciglia.
- *Nonlinear Dispersive PDE's*, October 2018, Università Sapienza, Rome, Italy, Invited by Prof. Oana Ivanovici.
- *Hamiltonian PDEs and nonlinear waves*, February 2019, La Thuile, Italy, Invited by Dr. David Lafontaine.

Seminars

Long time solutions for the fully-nonlinear NLS on the circle, 2020, LAGA, Paris 13, Paris, France, Invited by Prof. Jean Marc Delort.

Local and almost global solutions for fully non-linear Schrödinger equations on the circle, 2018, Laboratoire J.A. Dieudonné, Nice, France, Invited by Prof. Oana Ivanovici.

On the quasi-linear Schrödinger equations on the circle, 2018, Università di Pisa, Pisa, Italy, Invited by Prof. Vladimir Georgiev.

Visiting researcher

From October 1-st, to 31 October, 2018, Laboratoire J.A. Dieudonné, Nice, France, Invited by Prof. Oana Ivanovici.

Spoken languages

- Italian: mother tongue
- English: fluent
- French: independent user