

Gian-Luca Oppo

Professor



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Research Interests

· BEC and Cold Atoms

- Computational Nonlinear Optics
- · Nonlinear Photonics

Biography

Gian-Luca Oppo is Professor of Computational and Nonlinear Physics at the University of Strathclyde since 1998 and the director of the Institute of Complex Systems since 2007. Oppo graduated at the National Institute of Optics in Florence (Italy) in 1983 and joined the University of Strathclyde in 1989 after research work at the Universities of Toronto (Canada), Drexel (Philadelphia, USA) and Nice (France). Oppo was awarded the Occhialini medal and prize in 2011 from the Institute of Physics and the Italian Physical Society, a Senior Research Fellowship from the Royal Society – Leverhulme Trust in 2003, a fellowship of the Centre for Complex Dynamics of the University of Florence in 2005 and the Silicon Graphics International Fellowship from 2000 to 2005. Oppo is a Fellow of the Royal Society of Edinburgh (2012), Optical Society of America (1999) and of the Institute of Physics (1997). Oppo is author of more than 140 publications in peer-review journals and books.

Oppo's research interests are in the theory and simulation of complex systems, nonlinear optics and photonic devices. Main achievements are in:

- Complex spatial structures in photonics [1]
- Light-matter interaction [2]
- Spatial and temporal solitons [3]
- · Control of nonlinear optical systems [4]
- Modelling of lasers and VCSELS [5]
- Bose-Einstein condensates [6]
- Quantum images [7]
- Excess noise [8]
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