

Nonlinear Schrödinger Models and Rogue Waves: Minisymposium at Dynamics Days Europe 2018

Organisers:

Stephane Randoux (University of Lille, France),
Pierre Suret (University of Lille, France)
Alexander Tovbis (University of Central Florida)

Loughborough University, September 3-7, 2018

Current list of mini-symposia is available at <http://dynamicsday2018.lboro.ac.uk/>

1 MS Description

Nonlinear Schrödinger equation and its generalisations play fundamental role in modern nonlinear physics and mathematics. The mini-symposium will bring together an international collection of mathematicians and physicists in order to identify common interests and emerging problems involving nonlinear Schrödinger models and their applications to the description of modulational instability, dispersive shock and rogue waves, integrable turbulence and related phenomena. The topics of interest include the latest developments in the inverse scattering transform techniques, semi-classical asymptotics, integrable turbulence, rogue waves, numerical simulations and physical experiments in water waves and nonlinear optics.

2 Schedule

All 25-min talks are in room J002 Edward Herbert Building

Thursday 10 : 30 – 12 : 30

Roger Grimshaw (Department of Mathematics, University College London, UK)
Sara Lombardo (Loughborough University, UK)
Alexander Tovbis (University of Central Florida, USA)
Matteo Conforti (Univ. Lille, CNRS, UMR 8523-PhLAM- F-59000 Lille, France)

Thursday 15 : 30 – 18 : 00

Pierre Suret (University of Lille, France)
Alfred Osborne (Nonlinear Waves Research Corporation, Alexandria Virginia, USA)
Andrey Gelash (Novosibirsk State University)
Dmitry Agafontsev (P.P. Shirshov Institute of Oceanology, Moscow)
Bertrand Kibler (Laboratoire Interdisciplinaire Carnot de Bourgogne, Dijon, France)

Friday 10 : 30 – 12 : 00

Amin Chabchoub (University of Sydney)
Bob Jenkins (Department of Mathematics, University of Arizona, USA)
Ragnar Fleischmann (Max-Planck-Institut, Göttingen, Germany)