

INSTITUT D'ETUDES SCIENTIFIQUES DE CARGESE

Cargèse International School 2018

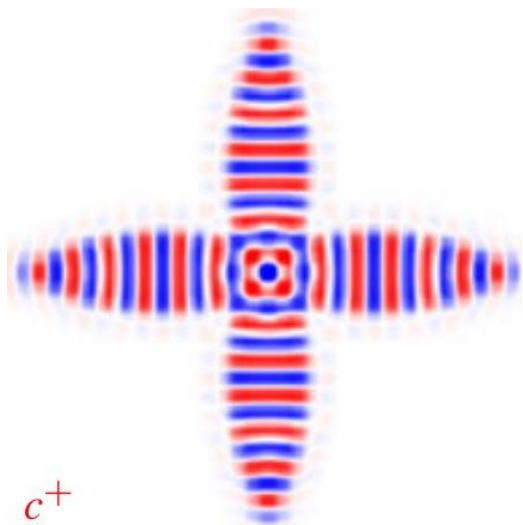
Perspectives in Nonlinear Science

March 26 - 30, 2018

Web site

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IOP Institute of Physics

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Nonlinear science is the modern extension of dynamical systems theory, which itself originated with Poincaré at the beginning of the 20th century, giving a geometric perspective to the study of differential equations. The discovery of deterministic chaos in the 1960s and 1970s led to the “chaos revolution” of the 1980s and to the revival and extension of dynamical systems theory to nonlinear science and pattern formation. Since the 1980s, nonlinear science has become an important field in its own right, providing principles and scenarios that guide physics, chemistry, biology, and engineering. The time is ripe for looking towards the past and future of this unifying and powerful scientific discipline,

Main topics will include

- dynamical systems,
- astrophysics,
- fluid dynamics,
- pattern formation,
- localized states,
- magnetohydrodynamics,
- liquid films,
- Faraday waves

Plenary talks will be given by :

Andrew Archer (Univ. Loughborough UK), Alain Bergeon (IMFT Toulouse FR), Alan Champneys (Univ. Bristol UK), Keith Julien (Univ. Colorado US), Isabel Mercader (UPC Barcelona ES), Bjorn Sanstede (Brown Univ. US), Mary Silber (Northwestern Univ. Chicago US), Uwe Thiele (Univ. Munster DE), Jose Manuel Vega (UP Madrid ES)

Scientific Committee

Cédric Beaume (Univ. of Leeds UK), Alastair Rucklidge (Univ. of Leeds UK), Steve Tobias (Univ. of Leeds UK), Laurette Tuckerman (PMMH-CNRS -ESPCI Paris FR)

Application and registration

<http://www.cbeaume.com/pins18/>

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Deadline Application : 2018, 15th February

Registration Fees : to be announced