Hands-On Research in Complex Systems School

22 July - 2 August 2019
Trieste, Italy

The School provides early stage researchers with interactive experiences of hands-on research involving table-top experiments with computer data acquisition and modeling. Participants will also take part in professional development of improved scientific communication in English.

Directors:

P. CICUTA, University of Cambridge
E. KOSTELICH, Arizona State University
M.F. SCHATZ, Georgia Institute of Technology
M.D. SHATTUCK, The City College of New York

Description:

An intensive programme of laboratory experiments, mathematical modeling, and lectures gives participants immersive experiences with complex systems in the physical and life sciences. Additionally, participants will present their own research in talks and posters with extensive faculty feedback to enhance the presentation quality. The faculty are eminent scientists who have conducted frontier table-top research published in leading international scientific journals.

Topics:

- Biological Physics
- Modeling of Epidemics
- Soft Matter Physics
- Turbulence
- Fluid Instabilities
- Machine learning in table-top experiments
- Microfluidics
- Granular Materials
- Modeling in MATLAB - Molecular Dynamics
- Chemical patterns
- Computational Modeling

Local Organizer:

M.L. CRESPO, ICTP

Speakers:

J. BICO, Paris ESPCI, France
P. CICUTA, University of Cambridge, UK
F. FEDERICI, Pontificia Universidad Católica de Chile
F. FENTON, Georgia Institute of Technology, USA
A. GUMEL, Arizona State University, USA
E. KOSTELICH, Arizona State University, USA
D. LATHROP, University of Maryland, USA
J. MOLLOY, University of Cambridge, UK
B. RODENBORN, Centre College, USA
M.D. SHATTUCK, The City College of New York, USA
M. TINSLEY, West Virginia University, USA

How to apply:

Online application:
http://indico.ictp.it/event/8701/

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

7 April 2019

Arizona State University

The Abdus Salam **International Centre for Theoretical Physics**
www.ictp.it
Trieste, Italy