

# Spring College on the Physics of Complex Systems



**19 February - 16 March 2018**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/8299/>  
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Many complex systems in physics, biology, engineering and economics are characterized by a large number of interacting degrees of freedom, giving rise to a non-trivial collective behavior. The theoretical and computational tools for a quantitative analysis of complex systems are often rooted in modern theoretical physics. The Spring College on the Physics of Complex Systems aims to expose students to a selection of topics at the forefront of research during an intensive, 4-week program. It consists of 5 courses of 9 lectures each, followed by final written tests.

The Spring College is part of the Master program in the Physics of Complex Systems, but it is open to a limited number of well-qualified students at the Master's and PhD levels. See <http://indico.ictp.it/event/8299/> for more details.

## Courses and Lecturers:

- Mahesh Bandi (OIST, Okinawa, Japan)  
Fluctuations and Information in Physical Systems
- Antonio Celani (ICTP, Trieste, Italy)  
Reinforcement Learning
- Chris Mathys (SISSA, Trieste, Italy)  
Hierarchical Inference
- Henri Orland (IPhT, CEA, Gif-sur-Yvette, France)  
Electrostatic Interactions in Soft and Biological Matter
- Gregory Schehr (LPTMS, Orsay Cedex, France)  
Statistics of Extremes in Correlated Systems

## How to apply:

Apply online at

<http://indico.ictp.it/event/8299/>

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.

## Organizers:

Andrea Gambassi (SISSA, Trieste, Italy)

Silvio Franz (LPTMS Orsay Cedex, France)

Alessandro Pelizzola (Politecnico di Torino, Italy)

Matteo Marsili (ICTP, Trieste, Italy)

## Deadline:

**30 November 2017**



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