EFFECTIVE THEORIES IN CLASSICAL AND QUANTUM PARTICLE SYSTEMS

Organisers: Chiara Saffirio (University of Basel) and Marcello Porta (SISSA, Trieste)

In the last few years there has been enormous progress in the rigorous understanding of the emergence of macroscopic effective theories for many-particle systems. This event aims at gathering researchers working on many-body classical and quantum systems, as well as on the analysis of nonlinear partial differential equations describing effective models. The workshop will give an overview of the latest developments in the field, and will stimulate interactions between researchers working in statistical mechanics and in the analysis on nonlinear partial differential equations.

INVITED SPEAKERS

Dario Bambusi (University of Milan)
Niels Benedikter (University of Milan)
Thierry Bodineau (IHES)
Serena Cenatiempo (GSSI L'Aquila)
Thomas Chen (University of Texas at Austin)
Maria Colombo (EPF Lausanne)
Michele Correggi (Politecnico di Milano)
Laurent Desvillettes (Université Paris Diderot)
Mitia Duerinckx (Université Libre de Bruxelles)
François Golse (Ecole polytechnique)
Christian Hainzl (LMU Munich)
Mikaela Iacobelli (ETH Zürich)
Antti Knowles (University of Geneva)
Alessia Nota (Università dell'Aquila)
Peter Pickl (University of Tübingen)
Nicolas Rougerie* (ENS Lyon)
Laure Saint-Raymond (IHES)
Benjamin Schlein (University of Zürich)
Robert Seringer (IST Austria)

For registration see https://indico.cern.ch/e/effective2023

More information on the SwissMAP Research Station at swissmaprs.ch

* to be confirmed.