

# Quantum Gases 2016: Non-Equilibrium Dynamics



## Organized by

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Ultracold atomic gases are ideal systems to study non-equilibrium physics. The physical problems includes both near equilibrium transport processes and far from equilibrium problems such as thermalization. These topics have received lots of attentions in the past a few years, in particular, due to the experimental technique developments of realizing quantum gases in different geometries, the quantum gas microscope and quantum gases in cavity. This conference aims at bringing together world-leading experts on these topics to discuss the most profound issues in the non-equilibrium physics that can be studied with ultracold atomic gases, and how these new techniques can help us to understand these issues better. The topics will include (but are not limited to):

- Transport and dynamics of strongly interacting Fermi gases
- Many-body localization
- Critical dynamics and thermalization
- Ultracold atomic gases in cavity

## Invitees

Natan Andrei (Rutgers)

Jean-Philippe Brantut (ETH)

Cheng Chin (Chicago)

Thierry Giamarchi (Geneva)

Christian Gross (Munich)

Andreas Hemmerich (Hamburg)

Michael Kohl (Bohn)

Manuele Landini (ETH)

Henrik Lueschen (Munich)

Erich Mueller (Cornell)

Nir Navon (Cambridge)

Philipp Preiss (Harvard/Heidelberg)

Marcos Rigol (Penn-State)

Giacomo Roati (INO-CNR and LENS)

Joseph Thywissen (Toronto)

For registration and more information, see conference website: <http://quantumgases2016.csp.escience.cn>



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