



From  
**05**  
FEB.  
2024  
to  
**09**  
FEB.  
2024

09h00  
-  
18h00

## **2024-T1 QUANTUM MANY-BODY SYSTEMS OUT-OF-EQUILIBRIUM**

### **Quantum simulators**

Institut Henri Poincaré  
Amphithéâtre Hermite / Darboux  
11 rue Pierre et Marie Curie  
75005 Paris

INSCRIPTION

### **Quantum simulators**

**February 5th to 9th, 2024 - IHP, Paris**

**This workshop is part of the thematic trimester program "Quantum many-body systems out-of-equilibrium" held at Institut Henri Poincaré, Paris**

URL of the page: <https://www.ihp.fr/en/events/quantum-simulators>

Quantum many-body systems have a formidable complexity, which grows exponentially with system sizes. Current classical computers can only afford the simulation of small systems, and mainly in reduced dimensions. In this conference we will focus on the simulation of quantum dynamics of both closed and open quantum many-body systems. The conference will explore this issue under several angles, from the realization and characterization of quantum simulators to its benchmark. It will both focus on methodological advances, such as numerical methods, exact solutions, theoretical and mathematical challenges as well focus on specific models as quantum magnets, quantum impurities and quantum transport setups.



## **INSTITUT HENRI POINCARÉ**

Sorbonne Université / CNRS  
11 rue Pierre et Marie Curie  
75231 Paris Cedex 05

### **TIMETABLE**

The institute:

- Monday to Friday from 8:30am to 6pm,
- closed on public holidays.

The museum - Maison Poincaré :

- Monday, Tuesday, Thursday and Friday from 9:30am to 5:30pm,
- Saturday from 10am to 6pm,
- closed on Wednesday and Sunday.