

Seminar Series on Quantum Computing

Rydberg qubits for simulation and sensing

Oliver Morsch
(CNR-INO and University of Pisa)

Abstract:

In recent years, Rydberg atoms have been increasingly used in several quantum technologies. In this talk I will give a brief introduction to Rydberg qubits and their applications in quantum simulation and quantum sensing. I will then give some examples of our recent work on these two technologies: the simulation of open quantum systems (phase transitions in driven quantum systems with controlled dissipation) and spatially resolved temperature measurements in a cold atomic gas using Rydberg-Doppler broadening thermometry.

Venue: **Seminar room of Math department (1st floor on the left)**
Time: **Monday, 20/05/2024, 17:00**

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