

Prof. Maciej Lewenstein

Instituto de Ciencias Fotónicas, Castelldefels, Barcelona

Título: “**Quantum Simulators: Where Do We Stand?**”

Día y hora: jueves 5 de julio de 15.30 a 16.15h

Resumen:

In my lecture I will discuss the present status of one of the pillars of the Quantum Technologies Flagship: Quantum Simulations. I will comment on various platforms and approaches, focusing, however, on ultra-cold atoms, molecules and ions. I will present the recent progress in the most challenging quantum simulations and speculate about the future directions, such as merging of quantum simulations and machine learning, or novel methods of quantum many body verification and certification.