



UNIVERSITÀ DI PISA  
Dipartimento di Fisica



## Seminario di Fisica della Materia



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*Ultracold atom quantum simulations:*

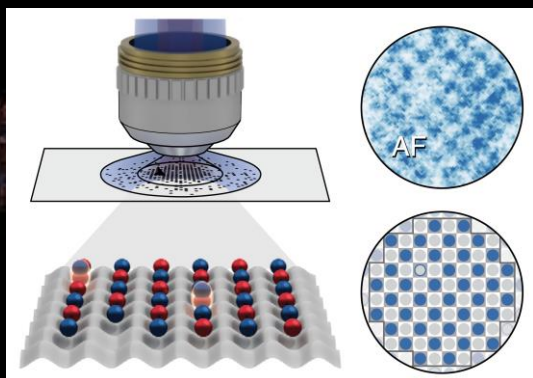
*Exploring low temperature Fermi-Hubbard phases*

20 Giugno 2018, ore 15

Aula 248 Edificio C (primo piano)

**Abstract:**

Ultracold-atom model-systems offer a unique way to investigate a wide range of many-body quantum physics in uncharted regimes. Quantum gas microscopy enables us to “zoom in” on a single particle level. We can explore many-body quantum physics in regimes that are not computationally accessible. In my talk I will present the first observation of an anti-ferromagnetic phase of Fermions in an optical lattice, and the observation of string pattern in the doped Fermi-Hubbard model.



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