What Do We
Know Today
About the Two-
Dimensional
Hubbard
Model?

APERO after the colloquium



Prof. Antoine Georges Collège de France, Paris Flatiron Inst. NY UniGE Monday March 11th 14:00 Room CM1 120

or on zoom : https://epfl.zoom.us/j/64905394203 The Hubbard model is a paradigm of the `strong correlation problem', with relevance high-Tc to superconductors ultra-cold and atoms. Key aspects of its physics in dimensions can now two be established beyond doubt, thanks to the development of controlled accurate computational and methods working in synergy (such as quantum embedding, tensor various flavors networks. of Monte Carlo quantum and. recently, neural quantum states). I will present in this perspective how the `pseudogap' can be understood in both the weak and strong coupling regimes and review the current understanding of emerging competing orders at low such temperature as d-wave superconductivity or stripes.

 School of Basic Sciences

Host: Prof. Giuseppe Carleo