

Presents ...

Friday, April 14, 2023

11:00 am -12:00 pm

Duboc Room - 4-331



Special Chez Pierre Seminar

Ady Stern, Weizmann Institute

"On the interplay of localization, topology and symmetry".

In topological states of matter, topology imposes constraints on the localization properties of electrons. For example, in the quantum Hall effect a quantized value of the Hall resistivity requires localization at the Fermi energy, while a transition between two quantized values requires delocalization. In this talk I will discuss topological states of a weaker type, those in which the topological protection relies on the preservation of a symmetry. I will examine how — and when - their topological nature affects their localization properties when they are subjected to a disordered potential that satisfies the symmetry only on average. The talk is not technical, and a broad introduction will be given.