

## From AL to MBL

*Thursday, February 29, 2024 11:00 AM (1h 30m)*

So far, most of the work aimed at understanding the many-body localization (MBL) problem has focused on the regime of relatively strong interactions. In this talk, after presenting some aspects of the current state of the field, I will discuss the overlooked regime of weak interactions, which turns out to be quite instructive for getting a better grasp on the MBL problem. I will also discuss very recent results on two-body correlations, which show unique properties to witness an ergodic instability and to test the avalanche theory.

**Presenter:** LAFLORENCIE, Nicolas (LPT Toulouse)