

## Many-body EFT

Dr. Pak-Hang Lau (Kobe University)

2021/11/30(Tuesday)/14:20~15:20

Google Meet: <https://meet.google.com/tgv-wzqv-ayp>

**Abstract:** I will review the concept of many-body physics with several examples and their connection to hydrodynamics. I will first review the conventional framework of hydrodynamics and motivate the need of an lagrangian formulation based on the microscopic properties of quantum many-body systems. These quantum properties will naturally lead to constraints on the physical parameters in the effective theory of hydrodynamics. I will describe the main idea of this formalism and present an application of this hydro EFT and its relevance to experiments.