



Physical Sciences Seminar

Many-body dynamics and gap opening in interacting periodically driven systems

Ervand Kandelaki (Copenhagen University)

Host: Maksym Serbyn

Periodic driving has recently attracted intense interest as a means for controlling and investigating a variety of intriguing quantum many-body phenomena. In particular, driving has been proposed as a new route for altering the topological properties of Bloch bands. In this talk, I will present our study of the transient dynamics in related periodically driven systems, focusing on the role of interactions. I will describe the appearance and time-dependent renormalization of the effective (Floquet) band gap. In addition, I will discuss the time scales for the emergence of the Floquet-Bloch bands in the non-equilibrium correlation functions, accessible in ARPES experiments.

Tuesday, February 20, 2018 11:00am - 12:30pm

IST Austria Campus Big Seminar room Ground floor / Office Bldg West (I21.EG.101)



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: <https://ist.ac.at/en/campus/how-to-get-here/> The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.