The Non-Equilibrium Quantum Frontier

DAY 1: Thursday, September 24, 2015
9:00 am Coffee at PCTS
9:20 am Welcoming Remarks
9:30-10:30am Many-body resonances in the MBL phase
   David Huse, Princeton University
10:30-11:00am Coffee Break
11:00-12:00 Finite-size scaling of many-body localization phase transitions
   Anushya Chandran, Perimeter Institute
Noon-1:30 Lunch at PCTS, Jadwin Hall, Fourth Floor
1:30-2:30pm Universal scaling properties of many-body (de)localization transitions
   Andrew Potter, Berkeley
2:30-3:00pm Coffee break
3:00-4:00pm Energy localization and ergodicity breaking in Floquet systems.
   Anatoli Polkovnikov, Boston University
4:00-4:30pm Coffee break
4:30-5:30pm PHYSICS COLLOQUIUM, Room A-10 Jadwin Hall
   “Floquet quantum states: topological transitions, steady states, and surprising implications”
   Gil Rafael, Cal Tech

DAY 2: Friday, September 25, 2015
9:00 am Coffee at PCTS
9:00-10:00am Long-time states of periodically-driven quantum systems
   Achilleas Lazarides, Max Planck Institute (MPIPKS)
Noon-1:30 Lunch at PCTS, Jadwin Hall, Fourth Floor
1:30-2:30pm Universal Aspects of Eigenstate Thermalization
   Tarun Grover, KITP
2:30-3:00pm Coffee break
3:00-4:00pm Quantum information and Tensor Network techniques to describe many-body localization
   Ignacio Cirac, Max Planck Institute of Quantum Optics
4:00-4:30pm Coffee break
4:30-5:30pm Efficient numerical methods for the simulation of many-body localized systems
   Frank Pollmann, Max Planck Institute (MPIPKS)

DAY 3: Saturday, September 26, 2015
8:30 am Coffee at PCTS
9:00-10:00am Spread of entanglement and causality
   Hong Liu, MIT
10:00-10:30am Coffee Break
10:30-11:30 Scaling Behavior in Holographic Quantum Quench
   Sumit Das, University of Kentucky
11:30-12:30 Driving Holographic CFTs
   Mukund Rangamani, Durham University
12:30 pm Lunch at PCTS, Jadwin Hall, Fourth Floor and departure