

## ICTS Seminar

- Title : Optimal control and shortcuts to adiabaticity in quantum systems driven out of equilibrium
- Speaker : Victor Mukherjee, Weizmann Institute of science, Israel
- Date : Friday, October 21, 2016
- Time : 11:00 am
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : Optimal control in quantum systems is necessary to achieve various tasks, including efficient cooling or heating of the systems, controlling decoherence in open quantum systems, and reducing excitations generated in a quantum system driven out of equilibrium. I will talk about optimal control in quantum systems in presence of Markovian and non-Markovian baths, as well as achieving local shortcuts to adiabaticity in quantum critical systems driven out of equilibrium.