

ICTS Seminar

- Title : Presence of quantum diffusion in two dimensions: Is there a metallic state in two dimensions in the presence of disorder?
- Speaker : Prabuddha Chakraborty, Indian Statistical Institute Chennai Centre, Chennai
- Date : Tuesday, May 9, 2017
- Time : 3: 30 PM
- Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore
- Abstract : For nearly forty years, after the famous "*gang of four*" result which prohibits a metallic state in two (or lower) dimensions in a free electron system in the presence of disorder, an open question in condensed matter physics has been whether interacting electrons can circumvent this result. We shall use numerical techniques to discuss this question in this seminar, and also show some recent results on the physics of low dimensional metallicity when one changes the symmetry class of the problem.