

ICTS Seminar

Title : Glassy dynamics in disordered oscillator chains

Speaker: Onuttom Narayan, University of California, Santa Cruz, USA

Date : Wednesday, September 6, 2017

Time : 4:00 PM

Venue : Madhava Lecture Hall, ICTS Campus, Bangalore

Abstract : The escape of energy injected into one site in a disordered chain of nonlinear oscillators is examined numerically. When the disorder has a 'fractal' pattern, the decay of the residual energy at the injection site can be fit to a stretched exponential with an exponent that varies continuously with the control parameter. At low temperature, we see evidence that energy can be trapped for an infinite time at the original site, i.e. classical many body localization.