



ICTS Colloquium

Title : A geometrical description of granular physics

Speaker: Shankar Ghosh, Tata Institute of Fundamental Research, Mumbai

: Monday, March 27, 2017 Date

Time : 3:00 pm

: Emmy Noether Seminar Room, ICTS Campus, Bangalore Venue

Abstract: I will highlight two aspects of granular systems: (i) A sand grain cannot

penetrate the space occupied by another, this gives rise to unilateral

constraints. Such constraints are inconvenient in the framework of

conventional mechanics. I will instead present an alternative geometrical

framework to deal with such situations and demonstrate its utility by

using this framework to explain few experimental results. (ii) The

attractive interactions which are ubiquitous in atomic systems are

replaced by dissipative frictional interactions in the world of granular

physics. I will also speak about our current understanding on friction

induced organisation in granular systems.

Website: www.icts.res.in