



ICTS

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TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## **ICTS Seminar**

Title : Anderson Localization studies in periodic-on-average random systems

Speaker : Sushil Mujumdar, Tata Institute of Fundamental Research, Mumbai

Date : Thursday, March 22, 2018

Time : 10:30 AM

Venue : Amal Raychaudhuri Meeting Room, ICTS Campus, Bangalore

Abstract : In this talk, I shall discuss our most recent experimental results on three systems, namely (a) quasi-one-dimensional periodic-on-average random array with gain, (b) a two-dimensional passive disordered system, and (c) a spoof-plasmonic one-dimensional localizing system. In these three systems, we will respectively address (a) single-parameter scaling breakdown behavior (b) statistics of generalized conductance and (c) a kondo-like behavior that distinguishes this structure from conventional experimental systems. In the end, I will show some early results of our newly started studies on localization in nonlinear disordered systems.