Tata Institute of Fundamental Research
Survey No. 36/P, Gopanpally Village, Serilingampally, Ranga Reddy Dist., Hyderabad - 500107

Colloquium

Synthetic Engineering of Graphene nanoribbons and 2D Channels

Ashok Keerthi

University of Manchester, UK

Talk will cover the topics of 1) 2D material, namely graphene nanoribbons (GNRs) with different structures, e.g., size and edge configuration, as well as edge doping, demonstrating the possibility of fine-tuning their photophysical, optoelectronic, magnetic and supramolecular (self-assembly) properties through the structural modulation from bottom-up approaches; and 2) 2D-empty space, created by the extraction of one atomic layer out of a layered crystal thus forming a 2D channel for fully-specular reflection of gas molecules, which results in their ballistic transport and, accordingly, a frictionless gas flow.

Monday, Apr 23rd 2018

4:00 PM (Tea/Coffee at 3:30 PM)

Auditorium, TIFR-H