

IACS Colloquium from the School of Physical Sciences by Prof. Anindya Das, Department of Physics, Indian Institute of Science, Bangalore on 23rd February 2024 (Friday)

Speaker: Prof. Anindya Das, Department of Physics, Indian Institute of Science, Bangalore

Date & Time: February 23, 2024 (Friday) at 16.00 hrs

Venue: CV Raman Hall

Title: Flat land of twisted bilayer graphene

Abstract: The recent discovery of twisted bilayer graphene with flat land has led to many unprecedented emerging phenomena in the condensed matter of physics. In this presentation, I aim to provide an overview of the field of twisted bilayer graphene and its significance in the current scientific landscape. I will address two primary questions: (i) do the observed resistance peaks at half filling represent correlation peaks? (ii) Is correlation a prerequisite for superconductivity? I will share insights from our recent experiments designed to address these questions.