



School of Nano Science



IPM Condensed Matter &
Statistical Physics Group

Weekly Seminar

Two-dimensional Materials and Their Applications

Invited speaker:

Dr. Amin Azizi

Physics Department, University of California at Berkeley

Abstract:

Two-dimensional (2D) crystals are atomically thin materials that offer a wide range of physical and chemical properties that can be engineered for targeted applications. In particular, they allow fabrication of unconventional and efficient devices for (opto)electronic, sensing, and energy applications. Advances in manipulating 2D structures and heterostructures at the atomic level enable to engineer their functionalities specific to certain applications. Different techniques for fabrication and processing of 2D materials and heterostructures will be presented. Using advanced materials characterization, their local atomic-scale characteristics will be demonstrated. In addition, fabrication of state-of-the-art devices based on 2D materials for applications in energy storage and sensing will be presented.

Wednesday, 4 Dey 1398 (December 25, 2019), 14:00-15:00

Seminar Room (Classroom A), Farmanieh Building, IPM