

THEORETICAL PHYSICS SEMINAR

Title: Quantum transport in the confined region of potential well and disordered wire

Speaker: Dr. Surender Pratap, BITS, Pilani

Date/Time/Venue: 28th April. (Friday)/2:30 PM/ Room No. 469

Tea will be served at 3:30pm outside Room 469

ABSTRACT

We report and adduced band structure in the confined region of potential well. LDOS, transmission, charge distribution have been calculated in the confined region of well. Transmission curves show oscillations with the increase of layers of unit cell. While in other part, we study level spacing distributions of finite sized 1-dimensional disordered systems. As the systems evolves from quasi ballistic to strongly localized regime, systems crosses over from strongly non-Wigner-Dyson type level spacing distribution to a universal Poisson distribution in the thermodynamic limit.

All are welcome to attend