



TALK ANNOUNCEMENT

16 December 2014 4:00 p.m. Boson

Speaker:

Dr. Sujit Sarkar

(Short Term visitor, VASP, EVLP to Prof. P.S Deo)

Affiliation:

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Title:

Quantum simulation of Dirac fermion mode, Majorana fermion mode and Majorana-Weyl fermion mode in cavity QED lattice

Abstract:

Quantum simulation aims to simulate a quantum system using a controllable laboratory system that underline the same mathematical model. Cavity QED lattice system is that prescribe system to simulate the relativistic quantum effect. We quantum simulate the Dirac fermion mode, Majorana fermion mode and also Majorana-Weyl fermion mode and a crossover between them in cavity QED lattice. We also present the different analytical relations between the field operators for different mode excitations.
