

ICTS Postdoc/Graduate Student Seminar Series

Title : Kitaev-Heisenberg model: Phases and material realizations

Speaker : Kusum Dhochak, ICTS-TIFR, Bangalore

Date : Friday, September 2, 2016

Time : 11:15 am

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : Kitaev model is an exactly solvable 2-dimensional spin half model with a quantum spin liquid ground state. This model has generated great interest due to its exact solvability and the existence of fractional excitations. Although it has not been realized in a physical system, some materials with strong spin orbit coupling have been shown to have a Kitaev model type interaction along with the isotropic Heisenberg term in the Hamiltonian. In this talk, I will review these models and various interesting phases they exhibit.

Note: This will be an ongoing biweekly seminar series (Fridays, 11:15 am) by the ICTS postdocs and graduate students