



**Udaipur Solar Observatory/ Physical Research Laboratory**

**P.Box.No 198, Dewali, Badi Road, Udaipur-313001**

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## **SEMINAR**

### **Energisation of particles from magnetic reconnection**

**(Rohit Sharma, NCRA-TIFR, Pune)**

The Solar Corona is fascinating. Coronal heating requires either a mechanism to transport heat to the corona or to generate heating in the corona, or both. Currently, the magnetic reconnection process is believed to be the dominant heating mechanism. Here we explore the energy dissipation in magnetic reconnection in small resistivity limits under the magnetohydrodynamics approximation. In addition, we also ask the question - how does the dissipated energy manifest itself ? To study this, we examine the dynamics of test charged particles at the site of magnetic reconnection. We focus on acceleration and formation of particle beams. The talk will summarise initial results from this study.

**Date:** Dec 18, 2015

**Time:** 16:00 hrs

**Venue:** USO Seminar Hall