



**TATA INSTITUTE OF FUNDAMENTAL RESEARCH**  
*DEPARTMENT OF ASTRONOMY & ASTROPHYSICS*

**Informal Astronomy Seminar**

June 29, 2010

Speaker : Ms. Mansi M. Kasliwal  
California Institute of Technology, USA

Title : The Palomar Transient Factory

Day, Date & Time : Tuesday, 29 June, 2010 at 16.00 hrs

Venue : TAP Seminar Room (A269)

(J.S.Yadav)

**Abstract**

*The Palomar Transient Factory is a new wide-field survey dedicated to systematically searching the night sky for optical transients. I begin with a system overview and explain our design sensitivity and emphasis on follow-up. Next, I discuss early science results from our first year of operation. We have thus far discovered and spectroscopically classified 600 optical transients. Here, I highlight transients in the luminosity gap between novae and supernovae, ultra-luminous supernovae, very young supernovae and very short-lived transients.*