

ASTRONOMY & ASTROPHYSICS DIVISION SEMINAR

Title : X-ray and Infrared Properties of Be/X-ray Binary Pulsars

Speaker : Dr. Sachindra Naik, PRL

Date : 21. 11 . 2013 (Thursday)

Time : 16:00 Hrs

Venue : Room # 114 (Thaltej Campus)

ABSTRACT :

Be/X-ray binaries, consisting of a compact object (neutron star) in orbit around the Be star, form the largest subclass (about 2/3) of High Mass X-ray Binaries (HMXBs). The orbit of the compact object around the Be star is wide and highly eccentric, limiting interactions with the circumstellar disk to when the objects are closest (periastron passage). Be/X-ray binaries are generally quiescent. The transient X-ray outbursts seen in these objects are thought to be due to interactions between the compact object and the circumstellar disk surrounding the Be star. The timing and broad-band X-ray spectral properties of a few Be/X-ray binary pulsars, during the regular X-ray outbursts will be discussed. Along with X-ray properties of these accreting pulsar during the outburst, the associated effect on the Be optical companion in infrared and optical bands will also be discussed.

All are welcome.....

Bus will be available from PRL main campus at 15:30 Hrs
