

Tuesday COLLOQUIUM

Speaker : Prof. P. C. Agrawal

“A Glimpse of the X-ray Universe”

Abstract : Since its birth in 1962 X-ray Astronomy has evolved rapidly in the last five decades. X-ray emission enables us to probe deep into the hearts of stars and galaxies at various stages of their evolution. High energy processes in the universe involving matter under extreme conditions are best probed by studying X-rays generated by them. These Processes operating in the evolved stars like neutron stars and black holes provide vital information about their physical conditions and environments. Accreting X-ray Binary stars are the brightest X-ray sources in our Galaxy and other similar galaxies. Their intensity exhibits periodic as well as irregular variations. Measurements of these variations as well as energy spectra of X-rays provides a tool to estimate masses of neutron stars , black hole mass and spin , strength of magnetic field of neutron stars etc. A glimpse of the X-ray Binaries and other powerful X-ray sources and the astrophysical processes at work in them will be presented in this talk.

Day & Date : **Tuesday, November 06, 2012**

Time : **15:45 hrs**

Venue : **Seminar Room PFAG14, Prefabs, Near Annabhau Sathe Bhavan, University of Mumbai, Vidyanagari, Kalina Campus, Mumbai - 400 098**

All are Welcome