



Diving Deep Into Physics
A Colloquium Series of The
Department of Physics

IIT
Jodhpur



Colloquium on
3.6m DOT and Energetic Cosmic Transients

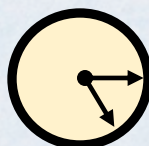
By

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04:30 PM to 05:30 PM

Abstract

Modern and active-optics based 3.6m Devasthal Optical Telescope (DOT) and backend instruments are well-suited to study time-critical astronomical events both at Galactic and extra-galactic scales. Longitudinal advantage of the facility is highly crucial to add values towards study of cosmic energetic phenomenon like Supernovae (SNe) and afterglows of Gamma-ray Bursts (GRBs). During last three decades, GRBs as very energetic and enigmatic sources are extremely important to not only understand extreme physical mechanisms but also to shed light to understand evolution of massive stars and in turn nature of compact objects. Optical-NIR studies of host galaxies of such sites further helps to understand ambient environment and star formation history at larger distances. Recent observational knowledge at multi-wavelengths about GRBs and other transients have opened-up some of the key areas having long term implications under a larger umbrella of Time Domain Astronomy.

Venue: Kothari Seminar Hall, Department of Physics