

## Astronomy & Astrophysics Division Seminar

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Title : NICSPol, A Near Infrared polarimeter for the 1.2m telescope at Mount Abu Infrared Observatory

Speaker : Ms. Aarthy E. (PRL, Ahmedabad)

Date : 16.08.2018 (Monday)

Time : 16:00 Hrs

Venue : Seminar Room # 113/114 (Thaltej Campus)

### **Abstract:**

NICSPol is a near infrared imaging polarimeter developed for the Near Infrared Camera and Spectrograph (NICS), one of the back end instruments of the 1.2 m Cassegrain telescope at the Mount Abu Infrared Observatory (MIRO), India. The polarimeter consists of a rotating wire grid polarizer which is mounted between the telescope optics and NICS. NICSPol is a general purpose instrument which could be used to study various astrophysical sources like star forming regions, AGNs, Pulsars, XRBs, GRBs, Supernovae et cetera. The observations are carried out for sources by rotating the polarimeter at multiple angles to determine the Stokes parameters, which are then converted into the polarization fraction and polarization angle. In this talk I would brief about the instrument, data acquiring and analysis procedure. The performance of NICSPol is verified with polarimetric standards along with which a preliminary science result will also be discussed.

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