

## Astronomy & Astrophysics Division Seminar

---

Title : A comprehensive study of open clusters

Speaker : Dr. Devendra Bisht (PRL, Ahmedabad)

Date : 02.11.2017 (Thursday)

Time : 16:00 Hrs

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

### **Abstract:**

Our main aim is to study the astrophysical behaviour of poorly studied open star cluster NGC 5617 towards, longitude ( $l$ ) = -45 deg in the Galactic plane using PPMXL, 2MASS, VVV survey, WISE and GLIMPSE data. We also have studied the mass function and dynamical state of the clusters Berkeley 24 and Czernik 27 using the optical CCD data for the first time. Mass function is derived by considering the corrections of data incompleteness and field star contamination. The mass function in the outer region of clusters are found to be steeper than in the inner region, indicating the presence of mass-segregation effect.

---