



# Physical Research Laboratory, Ahmedabad

## Colloquium 15-17

- Speaker:** Dr. Durgesh Tripathi  
Associate Professor, Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune
- Title:** “The Solar Ultraviolet Imaging Telescope on board Aditya-L1”
- Time:** Wednesday, 30 December 2015, 16.00 hrs.
- Venue:** K. R. Ramanathan Auditorium, PRL

### Abstract

The Solar Ultraviolet Imaging Telescope (SUIT) is an instrument onboard the Aditya-L1 spacecraft, the first dedicated solar mission of the Indian Space Research Organization (ISRO), which will be put in a halo orbit at the Sun-Earth Lagrange point (L1). SUIT uses an off-axis Ritchey–Chrétien configuration telescope with a combination of 11 narrow and broad bandpass filters that will take images of the full solar disk in the UV wavelength range 200-400 nm. It will provide near simultaneous observations of lower and middle layers of the solar atmosphere, namely the Photosphere, Chromosphere and lower transition region. These observations will help to improve our understanding of coupling and dynamics of various layers of the solar atmosphere, mechanisms responsible for stability, dynamics and eruption of solar prominences and CMEs, and possible causes of solar irradiance variability in the NUV region, which is of central interest for the Sun’s influence on climate.

### The Speaker

Dr. Durgesh Tripathi is currently an associate professor at the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune and Head of the Max-Planck Partner Group of Max-Planck Institute for Solar System Research, Goettingen, Germany. He completed his Ph.D. from the Max-Planck Institute for Solar System Research and Goettingen University in 2005 and after having a spell of about 6 years at the University of Cambridge, UK, he came back to IUCAA in 2011. His research interest is primarily the magnetic coupling and dynamics of the solar atmosphere including Sun climate and space weather. He is Principal Investigator of the Solar Ultraviolet Imaging Telescope on board Aditya-L1, a future mission of ISRO.

**Tea at 15:30 hrs.**

**ALL ARE WELCOME**

