



JAWAHARLAL NEHRU PLANETARIUM



Bangalore Association for Science Education

A Special Lecture by
Prof. G C Anupama

Professor, Indian Institute of Astrophysics, Bengaluru

TOPIC:

“The Thirty Meter Telescope”

Date:
August 9, 2015 (Sunday)
at 5:30 pm

Venue:
Jawaharlal Nehru Planetarium
Sri T Chowdaiah Road, High Grounds
Bengaluru – 560 001

Abstract:

The Thirty Meter Telescope (TMT) is a ground based telescope with a collecting area of 650 m^2 . It will observe through the atmospheric windows from 0.31 to $28 \text{ }\mu\text{m}$. At the heart of the telescope is a 30m diameter primary consisting of 492 segments. Advanced adaptive optics capabilities will allow highly sensitive, diffraction-limited observations beyond $1 \text{ }\mu\text{m}$ over most of the sky. 20 arcmin in diameter field-of-view Nasmyth foci facilitate the deployment of a variety of instruments for wide-field imaging, and/or multi-object spectroscopy.

These capabilities will enable groundbreaking advances in a wide range of scientific areas, from the most distant Universe to our own Solar System.

TMT is an international collaboration between the California Institute of Technology, Universities of California, Canada (represented by AURA), Japan (represented by NAOJ), China (represented by NAOC) and India (represented by DST). As a part of its in-kind contribution, India will be providing all the primary mirror control systems hardware, a fraction of the polished mirror segments, and software for the telescope control system. This talk will provide a brief description of the telescope and science cases, and the various related activities happening in India towards the build of the telescope.

*** ALL ARE WELCOME ***