



# INDIAN INSTITUTE OF ASTROPHYSICS

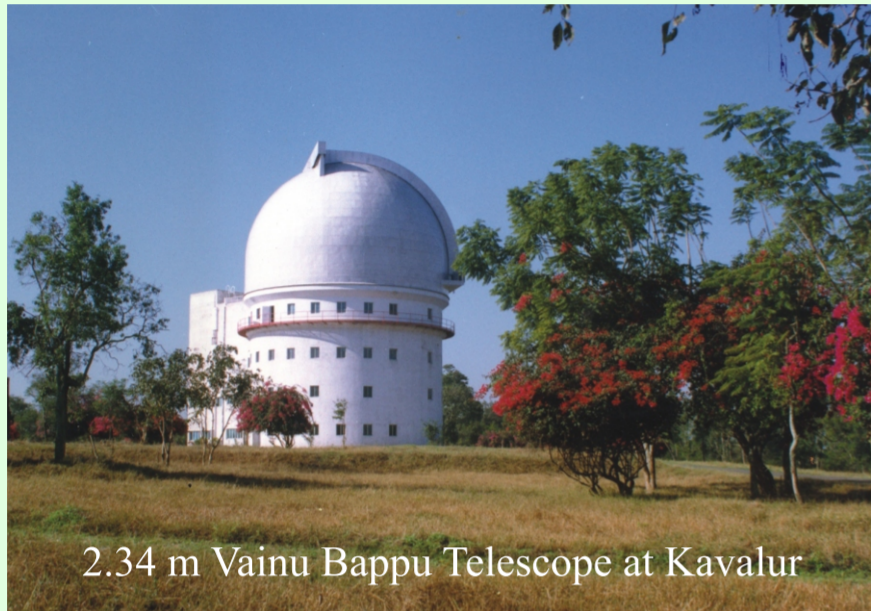
BANGALORE - 560034



## SUMMER PROGRAMMES - 2009

### 1. **Project Student Programme:** 13 May - 15 July, IIA, Bangalore

**Facilities:** Modern, well-stocked library, state of the art computing facilities, data center and high speed internet at Bangalore and field stations. The Institute is a member of C-DAC grid computing project with access to a large number of supercomputers in different parts of the country.



2.34 m Vainu Bappu Telescope at Kavalur

### 2. **School in Astronomy and Astrophysics:** 15 - 22 May, Vainu Bappu Observatory (VBO), Kavalur

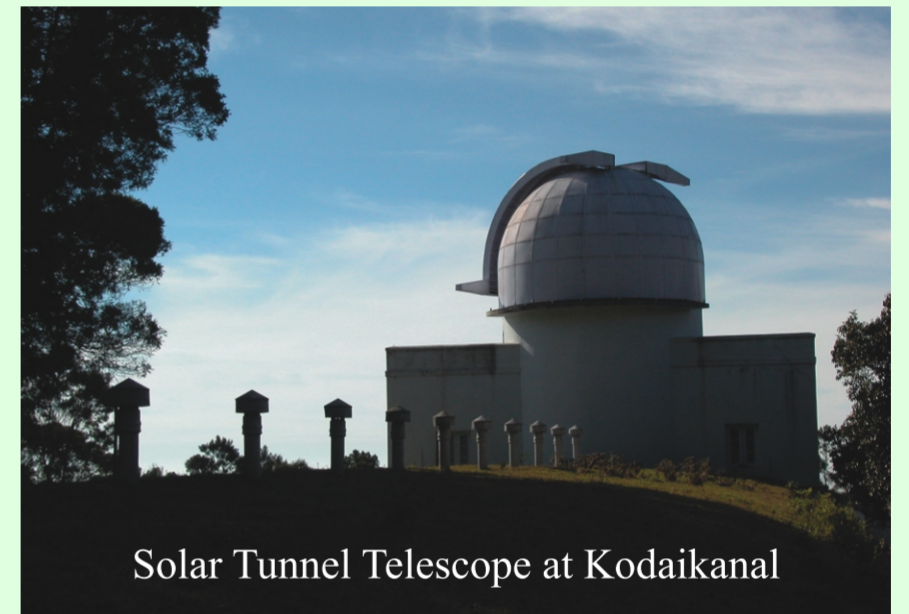
**Topic:** Stellar astronomy with evening sessions on observational astronomy

**Facilities:** 2.34 m Vainu Bappu Telescope: Instruments - CCD imager, low resolution spectrograph, high resolution echelle spectrograph, speckle interferometer; 1 m Carl - Zeiss Telescope: Instruments - CCD imager, low resolution spectrograph, polarimeter

### 3. **School in Physics:** 8 - 20 June, Kodaikanal Observatory, IIA

**Topic:** Astrophysics

**Facilities:** Library and computing facilities; Solar Tunnel Telescope: Instruments - high dispersion spectropolarimeter; Twin Telescope: Instruments - full disc CCD imagers



Solar Tunnel Telescope at Kodaikanal

#### Other facilities

**Gauribidanur Observatory:** Low frequency (30 - 120 MHz) radioheliograph; radio spectrograph and radio polarimeter

**Indian Astronomical Observatory, Hanle:** 2 m remotely operated Himalayan Chandra Telescope (HCT): Instruments - optical CCD imager, Hanle Faint Object Spectrograph Camera (HFOSC) and Near Infrared Imager: High Altitude Gamma Ray (HAGAR) Telescope Array

**Centre for Research and Education in Science & Technology, Hosakote:** HCT remote control centre; Laboratories for space payloads and adaptive optics

#### Research fields

**Sun and the solar system:** Solar activity; planets; comets; solar terrestrial physics

**Stellar physics:** Formation and evolution of stars; brown dwarfs; star clusters; planetary nebulae; stellar atmospheres; stellar variability; novae; supernovae

**Extragalactic astronomy:** Star formation in galaxies; activity in galaxies, groups and clusters of galaxies; gamma-ray burst events

**Theoretical astrophysics and related physics:** Magnetohydrodynamics and radiative processes in astrophysical objects; pulsars; black hole physics; structure and dynamics of galaxies; relativity; cosmology; atomic and molecular physics

**Instrumentation:** Back-end instruments for the various observing facilities, astronomy space payloads

#### Eligibility

##### 1. **Project Student Programme & School in Astronomy and Astrophysics :**

Students currently enrolled for M.Sc. (Physics, Mathematics) / B.E., B.Tech. and entering their final year are eligible to apply. The participants selected for Project Student Programme will also attend the School in Astronomy and Astrophysics at VBO, and continue their projects later at IIA, Bangalore

##### 2. **School in Physics:** Students entering into the final year of B.Sc. (Physics, Mathematics) and B.E./B.Tech. as well as those students who are entering the first year of M.Sc. (Physics, Mathematics) are eligible to apply.

For further details and online application form, visit IIA website: <http://www.iap.res.in>

Online application should be submitted on or before March 15, 2009.