



INDIAN INSTITUTE OF ASTROPHYSICS

BANGALORE - 560034, INDIA

SUMMER PROGRAMMES - 2008

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. **School in Astronomy and Astrophysics:** 15 - 22 May, Vainu Bappu Observatory, 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 imagers, low resolution spectrograph, polarimeter



3. **School in Physics:** 9 - 21 June, IIA, Kodaikanal

Topic: Experimental physics with focus on introduction to solar observations and analysis

Facilities: Solar tunnel telescope: Instruments - high dispersion spectropolarimeter; twin telescope: full disc CCD imagers

Other facilities

Gauribidanur Radio Observatory: Decameter wave Radio Telescope: Instruments - Radioheliograph

Indian Astronomical Observatory, Hanle: 2 m remotely operated Himalayan Chandra Telescope (HCT); High altitude gamma ray telescope (HAGAR)

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

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 Magneto-hydrodynamics and radiative processes in astrophysical objects; 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 Student Project 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 currently enrolled for B.Sc. (Physics), B.E. / B.Tech. and entering their final year and students enrolled for M.Sc. (Physics)

Application forms can be downloaded from the following web page: http://www.iiap.res.in/summer_program.htm

Completed application to be sent to: **Summer Programmes - 2008**, Board of Graduate Studies, Indian Institute of Astrophysics, II Block Koramangala, Bangalore 560034.

The deadline for submission of application is **March 7, 2008**. For further information about the Institute visit the IIA Website : <http://www.iiap.res.in>