



[Estd. 1917]

Introductory Workshop on Solar Astronomy



Organised by

Department of Physics, Patna University, Patna & IUCAA Pune
(29 - 30 November 2024)

About the workshop

Our Sun is a 4.5-billion-year-old yellow star. The Sun is the nearest star to the Earth and is the only source of energy in our solar system. The Sun is a dynamic star and goes through phases of low and high activity. At the peak, a number of sunspots and eruptive events such as solar flares and coronal mass ejections get enhanced significantly. When these events are directed toward the Earth, the radiation, magnetized plasma, and charged particles associated with them may produce severe space weather disturbances and damage satellites. On September 2, 2023, India's Aditya-L1 mission was launched and subsequently placed in the halo orbit around Lagrangian point L1 to study the Sun, which has sparked great excitement among the students. This workshop aims to familiarize students with the basic processes happening on the Sun and its atmosphere, including the outstanding open problems of Solar Physics. The workshop endeavors to enhance participants' understanding of key concepts, and share the latest research findings and theories of the solar astronomy.

Topic Covered

- Introduction to the Sun
- Introduction to the ADITYA-L1 mission and its science objectives
- Solar Eruptive Phenomena and Space Weather
- Magnetohydrodynamics of the Sun
- Magnetic Reconnection in the Sun
- Demonstration of the basic solar data analysis

Who Can Apply

- Students pursuing B.Sc. (Final year)/ M.Sc /Integrated M.Sc (Physics/Astronomy/Electronics) or those who have passed M.Sc/Int. M.Sc in 2024 are eligible to apply. Preference will be given to M.Sc. (Physics/Astronomy) students.
- **Total number of participants is limited to 50.**

Support for the Participants

- Reimbursement of Sleeper Class round trip train ticket for the out-stationed students
- Fooding and lodging during the workshop
- Participation certificate at the end of the workshop

Patron

Prof. A. K. Singh, Hon'ble Vice Chancellor, PU

PU Coordinators

Prof. Sumita Singh, Head, Department of Physics
Dr. Sanjay Kumar, Asst. Professor, Dept. of Physics

IUCAA Coordinator

Prof. Durgesh Tripathi, Professor, IUCAA, Pune

Organising committee

Prof. Surabhi Prasad, Professor, Dept. of Physics
Dr. Ashok Kumar Jha, Asst. Prof., Dept. of Physics
Dr. Santosh Prasad Gupta, Asst. Prof., Dept. of Physics
Dr. Sanjay Kumar, Asst. Prof., Dept. of Physics
Dr. Akhilesh Kumar Gupta, Asst. Prof., Dept. of Physics
Dr. Sandeep Kumar Garg, Asst. Prof., Dept. of Physics

How to Apply

For registration

Click Here: <https://forms.gle/VTEJxQSLfcfCeqcr5>



THERE IS NO REGISTRATION FEE

Important Dates

- **Deadline for registration:** 18th October 2024
- **Date of Workshop:** 29-30 November 2024
- **Venue:** Department of Physics, Patna University, Patna

Contact

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Selected candidates will be informed through email by 25th October 2024.