



भारतीय ताराभौतिकी संस्थान
INDIAN INSTITUTE OF ASTROPHYSICS
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स्नातक अध्ययन मंडल **Board of Graduate Studies**

IIA - CU - PhD (Tech) Public Ph.D viva-voce examination

वक्ता **Speaker:** Anwesh Kumar Mishra

शीर्षक Title: Aspects of Design and Development of a Near Infrared Photometer for Low Altitude Astronomical Sites

सार Abstract

Observations of bright near infrared astronomical sources has been neglected in recent times. To fill this gap, a Near Infrared (0.9-1.8 microns) photometer operating from a low latitude astronomical site has been developed. Design decisions defining the specifications of this photometer will be presented. InGaAs single pixel detectors and IRWG (Infrared Working Group) recommended filters are identified to be capable of achieving high signal-to-noise ratio while observing bright sources with short integration times. Design, development, laboratory tests, and on-telescope performance of this photometer will be discussed, highlighting various science goals that can be accomplished.

In this talk, I will also go through the practical considerations of installing this photometer on the 1 metre Carl-Zeiss telescope of Vainu Bappu Observatory, Kavalur.

बुधवार Wednesday 3, अगस्त August 2022

Time: 2:30PM

Remotely online

सभी का स्वागत है All are welcome

Join Zoom Meeting

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