



भारतीय खगोलभौतिकी संस्थान

INDIAN INSTITUTE OF ASTROPHYSICS

कोरमंगला Koramangala, बेंगलूरु Bengaluru – 560034.

स्नातक अध्ययन मंडल **Board of Graduate Studies.**

Visiting Student's Programme Seminar

Title: Development of a software tool to predict high altitude balloon landing location

Speaker: Ms. Rashika Rai
(BSc Hons Physics)

सार Abstract

The Space payloads group at IIA has an on-going program for high altitude balloon experiments. Balloons are launched from CREST campus and they have a predefined timer for flight termination. Once the balloon is cutoff, a parachute is deployed to bring down the payload safely to the ground. One of the major challenges in these experiments is to reliably predict the location where the payload would land so that it can be recovered quickly. We have developed a software that uses wind pattern information from NOAA along with live GPS coordinates of the payload to predict the landing site. The location is displayed on a map to assist the recovery team. This software is designed to run on a portable device and can work offline. A summary of the development effort and the software functionalities will be covered in this seminar.

सोमवार Monday 21, जुलाई July 2025

Time: 2:30 PM

प्रेक्षागृह Auditorium

सभी का स्वागत है All are welcome.