

भारतीय खगोलभौतिकी संस्थान INDIAN INSTITUTE OF ASTROPHYSICS कोरमंगला Koramangala, बेंगलूरु Bengaluru – 560034.

रनातक अध्ययन मंडल Board of Graduate Studies.

Visiting Student's Programme Seminar

[Science Academies Summer Research Fellowship - 2025]

Title: Estimation of orbital parameters of binary stars from speckle interferometry data

Speaker: Mr. Rudra Pratap Jha (IIT –Gandhinagar)

सार Abstract

Speckle interferometry uses image post-processing to achieve diffraction-limited autocorrelation of an object. It has been widely applied to detect binary and triple stars from ground-based telescopes. In this project, a few examples of this technique are shown with the data obtained from the Vainu Bappu Telescope at VBO, Kavalur. If such data (separation of components of a binary) is available at multiple epochs, it would be possible to estimate the orbital parameters of the binary system. We developed a tool to determine the binary orbital parameters from data obtained in five epochs.

मंगलवार Tuesday 22, जुलाई July 2025

Time: 2:30 PM

प्रेक्षागृह Auditorium

सभी का स्वागत है All are welcome.