



भारतीय खगोलभौतिकी संस्थान Indian Institute of Astrophysics

IIA Colloquium

11:30 a.m., Thursday, 21st May 2026
IIA Auditorium

Prof. Y. Divakara Mayya

Instituto Nacional de Astrofísica
Óptica y Electrónica, Puebla
México



The James Webb Space Telescope's view of phantom galaxies

The James Webb Space Telescope has unveiled a bubble-dominated morphology in nearby star-forming galaxies, giving them a new popular name of phantom galaxies. The unprecedented spatial resolution of the JWST and the filters it is equipped with allow the identification of millions of stars in these galaxies. We have been analysing these datasets to address several interesting research problems, such as understanding the origin of bubbles, the details of massive star evolution, and the determination of the metallicity of the oldest disk stars. The last of these studies provides an efficient novel method of exploring the formation epochs of disks in galaxies. In the colloquium, I will give the current status of our studies in these fields.

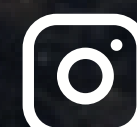
High Tea at auditorium lounge at 11:00 a.m.

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