



Bose.X TRIAC Webinar Series

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Tuning to the mysteries of the Universe: Unveiling the hidden cosmos with radio waves

How do we observe the invisible?
What lies in the vast cosmic spaces between galaxies? And how do black holes—famously silent—leave some of the loudest imprints in the sky?

26th April 2025, 16:30 IST

REGISTER NOW

In this talk, we'll explore how radio astronomy lets us tune into some of the most powerful processes of the Universe. The radio continuum sky reveals powerful jets from supermassive black holes, ghostly relics of past galaxy activity, and vast structures tracing the underlying cosmic web. As a radio astronomer working with data from instruments like GMRT, LOFAR & JVLA, and soon the Square Kilometre Array (SKA), I will share how we use this data to piece together the life cycles of active galaxies, merger activity of galaxy clusters and understand the nature of cosmic magnetism. This is not just a story about radio waves—it's about how we use them to probe the deep physics of the cosmos.



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DR. PRATIK DABHADE
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