



ICTS

INTERNATIONAL  
CENTRE *for*  
THEORETICAL  
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

## **ICTS Colloquium**

- Title : Multi-messenger Cosmology: A New Frontier
- Speaker : Suvodip Mukherjee (University of Amsterdam, Netherland)
- Date : Monday, 15<sup>th</sup> March 2021
- Time : 03:00 pm (IST)
- Abstract : The discovery of astrophysical gravitational waves has opened a new avenue to explore the cosmos using transients. I will discuss a few new frontiers in the field of physical cosmology and fundamental physics that can be explored using gravitational wave signal detectable from the currently ongoing network of gravitational wave detectors such as LIGO/Virgo, and in the future from gravitational wave detectors such as KAGRA, LIGO-India, LISA, Einstein Telescope, and Cosmic Explorer. I will elucidate the existence of synergies between electromagnetic probes and gravitational wave probes and their importance in understanding the standard model of cosmology and the fundamental laws of physics that govern it.
- Venue : Please click on the link to join the meeting.  
<https://zoom.us/j/99094989064?pwd=OVRRNXE3RzNmWklCSUdON2lZU2tCUT09>  
Meeting ID: 990 9498 9064  
Passcode: 806397