



## **ICTS Astrophysics & Relativity Seminar**

**Title** : Investigating physics beyond General Relativity and Kerr paradigm

**Speaker** : Rajes Ghosh (ICTS-TIFR, Bengaluru)

**Date** : Tuesday, 12 September 2024

**Time** : 3:30 PM (IST)

**Abstract** : We are living in an exciting time when gravitational wave astronomy and shadow observations are providing us with new ways to probe strong gravity regimes. This is a high time to test various predictions of general relativity and constrain possible deviations from it. In this spirit, I will present a few of my ongoing works that probe various aspects of modified gravity and the post-Kerr paradigm. In particular, I will discuss how to censor certain classes of modified gravity, how to test the presence of spacetime symmetries and various environmental effects on black hole ringdown.

**Venue** : Feynman Lecture Hall

Zoom Link: <https://icts-res-in.zoom.us/j/91331535849?pwd=MWPv9krjiZanttUYiUmdlPaStE1yK.1>

Meeting ID: 913 3153 5849

Passcode: 202030