



ICTS Astrophysics & Relativity Seminar

Title : The conundrum of Tidal Love number

Speaker : Sumanta Chakraborty (Indian Association for the Cultivation of Science, Kolkata)

Date : Tuesday, 20th February, 2024

Time : 02:00 PM (IST)

Abstract : Tidal Love numbers provide us a handle to test the nature of compact objects, as well as theories of gravity. There have been several clarifications recently, which makes our understanding of these Love numbers better. But further investigations have led to more confusion. I plan to discuss these recent developments and the confusing nature of recent literature on these issues. I will show that the tidal Love numbers of a non-rotating black hole identically vanishes, but for a slowly rotating black hole there are other possibilities. Besides black holes, I will also highlight some remarkable novel features, for ultra-compact objects as well as for quantum BHs.

Venue : Offline: Chern Lecture Hall

Online: Please click on the below link to join the seminar

<https://icts-res-in.zoom.us/j/92367825616?pwd=WUxiNU0rd1FKQ1pPaVVhSmFncWo1UT09>

Meeting ID: 923 6782 5616

Passcode: 202021