

SEMINAR NOTICE

On 9th November, 2022 [Wednesday]

Time: 3:00 PM

VENUE: PAMU Seminar Room

Physics and Applied Mathematics Unit
Indian Statistical Institute, Kolkata- 700108

Speaker: Indranil Chakraborty

Indian Institute of Technology, Kharagpur

Title: Memory effects in exact radiative spacetimes in General Relativity and Modified Gravity.

Abstract: Following recent work [Zhang, Duval, Gibbons and Horvathy (PRD, 2017)], there has been growing interest in understanding memory effects through the study of geodesic motion. One can, in principle, arrive at a class of memory effects (displacement and velocity memory) by solving the geodesic equation or the equation of geodesic deviation. Another route to memory (also termed as B-memory) involves the study of geodesic congruences by utilising the Raychaudhuri equation. In this talk, we will provide an overview of our recent work on such diverse aspects of memory in the context of exact, radiative solutions in General Relativity and modified theories of gravity.

All are Cordially Invited to Attend

(Head, PAMU)