

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032, India

Seminar Notice

Org. by

School of Physical Sciences

Title:	Light Rings of Stationary Spacetimes
Speaker:	Sudipta Sarkar, IIT-Gandhinagar
Date:	May 27, 2022 (Friday)
Time:	16:00 Hours (IST)
Venue:	Physics Seminar Room(C-406), 3rd Floor, Centenary Building, IACS
Abstract:	In this talk, I present a novel theorem regarding light rings in a stationary spacetime with an ergoregion. I will show that any stationary, axisymmetric, and asymptotically flat spacetime in d dimensions with an ergoregion must have at least one light ring outside the ergoregion. A possible extension of the proof for asymptotically de Sitter and anti-de Sitter spherically symmetric black holes will also be discussed.

All are cordially invited to attend the seminar