



Tata Institute of Fundamental Research

Endowment Fund

**The 10th Madan Lal Mehta Memorial
Lecture**



Classical Gravitational Radiation from Quantum Amplitudes

Prof. Ashoke Sen

Harish-Chandra Research Institute, Allahabad

Tuesday, February 25, 2020 at 4 p.m.

AG-66 (Lecture Theatre), TIFR,

1-Homi Bhabha Road, Colaba, Mumbai 400005.

Any violent explosion or collision in the universe produces gravitational waves. Computing the shape of the gravitational wave-form produced during such processes is quite complicated, often requiring numerical analysis. However, one can get analytical results on the shape of the wave-form at late time by starting with a scattering amplitude in the quantum theory of gravity and then taking its classical limit.

Prof. Ashoke Sen, FRS, is a distinguished professor at the Harish-Chandra Research Institute. His numerous seminal contributions include his landmark discovery of striking evidence for strong-weak coupling duality in string theory and quantum field theory, and his detailed microscopic counting of black hole entropy in several compactifications of string theory. Prof. Sen has won several awards, including the Dirac Medal and the Padma Bhushan. He was also among the first recipients of the Fundamental Physics Prize.



Prof. Ashoke Sen

Talk is open to all.

Non TIFR members are requested to carry valid photo ID card.

For details: 22782500 Email: pro@tifr.res.in.