A-1090 WIEN, BOLTZMANNGASSE 5, AUSTRIA



EINLADUNG

im Rahmen des Literaturseminars

zum Vortrag von

Jahanur Hoque

(Chennai, Indien)

über

"Gravitational waves in deSitter background"

Abstract:

Cosmological observations have established that our universe has positive cosmological constant. A positive cosmological constant profoundly alters the asymptotic structure of space-time. In this talk, we discuss the linearized gravitational field produced by compact sources in the background with positive cosmological constant -- de Sitter space. Using the covariant phase space formalism, we obtain the quadrupole formula in such a setting. We also show that the energy flux of gravitational waves measured at future null infinity is the same as that measured across the cosmological horizon of the compact source. To get an order of estimate we also discuss power radiated by a binary system in de Sitter background.

Zeit: Donnerstag, 21.6.2018, 14.00

Ort: Arbeitsgruppe Gravitation, Währinger Straße 17,

Raum, 218, 2. Stock

gez.: P. Chrusciel, D. Fajman