

ICTS Skype Seminar

Title : Numerical relativity and modified gravity

Speaker : Apratim Ganguly, Rhodes University, South Africa

Date : Friday, 15 December 2017

Time : 3:00 PM

Venue : Emmy Noether Seminar Room, ICTS Campus, Bangalore

Abstract : To date general relativity (GR) has passed all experimental tests with flying colours. The inconsistency of classical GR and quantum mechanics, particularly near singularities, however suggest modifications to GR may be inevitable. In this talk, I will present three aspects of scalar-tensor theories for spherical objects that I'm particularly interested in – the stability in the linear regime and QNM frequencies, the nonlinear regime in the spherical case with collapse and fully nonlinear regime with gravitational waves from boson stars.