

PHY502A: MSc Review Project III

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Program : MSc-PhD Dual Degree

Project Supervisor : Kaushik Bhattacharya

Project Title:

Gravitational waves in spherical systems where matter and scalar field are coupled non-minimally

Objective:

It is known that black holes and compact objects can emit gravitational radiation. In this project we will work with spherically symmetric solutions of Einstein equations, seeded by matter and scalar field non-minimally coupled, and try to see how the tensor perturbations behave in these systems.