

Ghost free and singularity free construction of gravity : classical and quantum aspects

Thursday, March 26, 2015 11:10 AM (50 minutes)

I will discuss generalisation of Einstein's gravity in the ultraviolet by extending it to infinite derivative theory of gravity which can ameliorate cosmological and black hole singularities. Furthermore at quantum level such class of action can also be made finite up to 2 loops. Beyond 2 loops there are some conjectures.

Presenter: MAZUMDAR, Anupam