

Li: Cosmological tests of gravity - some recent updates

Tuesday, 26 September 2017 11:30 (35 minutes)

Testing gravity on cosmological scales has received a great deal of interest in recent years in light of big galaxy surveys such as Euclid, LSST and DESI. In this talk I will describe some of the recent completed and ongoing works in this development. The talk will begin with a description of the models being studied and the rationales behind them, especially the generality of the results that would be derived from them. I will then talk about three main cosmological probes - weak gravitational lensing, galaxy clustering and clusters of galaxies - and their possible benefits and limitations in such tests.