

The gravitational-wave luminosity distance in modified gravity

jeudi 14 juin 2018 10:00 (15 minutes)

In modified gravity the propagation of gravitational waves is in general different from that in general relativity. As a result, the luminosity distance for GWs can differ from that for electromagnetic signals, and is affected both by the dark energy equation of state and by a function describing modified propagation. The effect of modified propagation in general dominates over the effect of the dark energy equation of state, making it easier to distinguish a modified gravity model from Λ CDM using standard sirens. (based on arXiv:1712.08108).

Authors: MAGGIORE, Michele (University of Geneva); BELGACEM, Enis; FOFFA, Stefano; DIRIAN, Yves

Orateur: MAGGIORE, Michele (University of Geneva)

Classification de Session: Talks and group discussions