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Tests of Gravity Using Supermassive Black Holes

Tuesday 20 June 2017 17:15 (15 minutes)

Modified gravity models with screening mechanisms, such as galileons, are prime dark energy candidates but they are notoriously difficult to test. In this talk, I will discuss a new scenario for testing galileons. Black holes do not feel the galileon force and, as a consequence, the supermassive black holes in galaxies falling into clusters should be offset from the galactic centre by a significant amount. I will show how this can already be used to place new constraints using nearby clusters, and how future surveys could constrain these theories to new levels.

Presentation type

Parallel talk

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