

Interacting vacuum dark energy

Thursday 22 March 2018 18:20 (20 minutes)

The standard model of cosmology, Λ CDM, suffers from both theoretical and observational problems that motivate alternative theories of dark energy. One such class of theories are interacting dark energy models. In my talk, I will give an overview of the problems with Λ CDM and discuss the interacting vacuum scenario, in which the time-varying vacuum energy is allowed to interact with dark matter. I will explain how this interaction can be reconstructed from and constrained by observational data and present some preliminary results.

Presenter: Ms HOGG, Natalie