



Contribution ID: 49

Type: Talk

Connecting early Dark Energy to late Dark Energy by the diluting matter potential

Thursday 26 June 2025 10:05 (25 minutes)

A scale invariant gravity theory containing two scalar fields, dust particles and a measure defined from degrees of freedom independent of the metric. The integration of the degrees of freedom that define the measure spontaneously break the scale symmetry, leaving us in the Einstein frame with an effective potential that is dependent on the density of the particles. The potential contains three flat regions, one for inflation, another for early dark energy and the third for late dark energy. At a certain point, as the matter dilutes, tunneling from the early dark energy to the late dark energy can start efficiently. This scenario can resolve the H_0 tension.

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Session Classification: Morning session 1