



Contribution ID: 21

Type: **not specified**

Unimodular Gravity and diffusion processes in the dark sector: a possible solution to the H_0 tension

Thursday 8 October 2020 09:25 (25 minutes)

In this talk, we will review some phenomenological diffusion models within the gravitational framework of Unimodular Gravity. We will show that, when regarding non-gravitational interactions between cold dark matter and an effective cosmological constant, it is possible to address one of the modern cosmological problems: the discrepancy between the early and late time inferred value of the current Hubble parameter, H_0 . Finally, we will impose some constraints on the main diffusion parameters to study the viability of these models.

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Session Classification: MOCa