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Alleviating H0 tension in f(G) gravity

Tuesday 12 September 2023 17:00 (30 minutes)

We show how we can alleviate the H0 tension in the framework of f(G) gravity. In particular, we obtain the Friedmann equations and we show that we obtain extra terms of geometrical origin that constitute an effective dark energy sector. Then we show that due to the increased friction terms, one can obtain an increase in H0 at late times. The reason behind the tension alleviation is the fact that the effective dark-energy equation-of-state parameter lies in the phantom regime, which is known to be one of the mechanism that can lead to an increased H0.

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