Contribution ID: **114** Type: **not specified**

Shift-symmetric Horndeski models in the asymptotically safe swampland?

Monday, 25 July 2022 17:20 (1h 15m)

Horndeski theories are widely considered extensions of general relativity, intended to explain the dark sector dynamically as well as alleviate the existing cosmological tensions. In this poster, I present a first renormalisation group analysis of the subclass of shift-symmetric kinetic braiding models, which still holds up to observation after GW170817. In particular, I show the four arising fixed points of which only the shifted Gaussian one is deemed reliable. As the investigated couplings are all irrelevant at this fixed point, I conclude that these kind of kinetic braiding models are likely not in the asymptotically safe landscape.

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Session Classification: Poster