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A data-driven reconstruction of Horndeski gravity using late-time Hubble data

Thursday 9 September 2021 09:40 (20 minutes)

We reconstruct the Hubble function using late-time cosmological data sets and use it to draw out Horndeski theories that are fully anchored on the expansion history. We discuss various formalisms for the inversion of the modified Friedmann equations and complement this with the reconstructed Hubble data to obtain predictive constraints on the Horndeski potentials and the dark energy equation of state.

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