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Broken Ladders: Analysing ΛCDM Extentions and the Hubble Crisis

Monday 28 October 2024 15:20 (15 minutes)

The Hubble Crisis – a large disagreement between different direct and indirect measurements of the present-day rate of the expansion of the Universe H_0 – remains one of the most significant issues in the ΛCDM paradigm despite continuing advances in observational techniques. The talk presents the problems plaguing common ΛCDM extentions, with the phantom-crossing dark energy models as an example, possible alternative approaches and the difficulties that need to be overcome to explore them. Partially based on the results of https://arxiv.org/abs/2203.03666 (Chudaykin, Gorbunov, Nedelko) as well as on ongoing research.

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