



<https://l.infn.it/1fb>



PHYSICS COLLOQUIA

HUBBLE TROUBLES

Prof. Licia Verde

Instituto de Ciencias del Cosmos (ICC), University of Barcelona, Spain

Abstract: Despite its spectacular success, the Λ CDM model is ultimately phenomenological: it establishes a robust framework in which some fundamental issues remain unresolved. With observations becoming increasingly precise, it is reasonable to expect that "something's gotta give" and that the Λ CDM model will show some cracks. The Hubble tension—the discrepancy between the value of the Hubble parameter, when inferred as a global parameter of the standard cosmological model, and when measured directly in the late-time Universe from the redshift-to-distance relation—has been looming for a decade and has been studied extensively. Could it be such a crack? I will give an overview of the status of the Hubble tension and tentatively speculate on why it has persisted thus far.

October 9th 2025, 14.30

Grassano Room