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Lemaitre: getting Hubble into troubles a century later

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The Hubble-Lemaître parameter not only relates redshifts to distances in the nearby Universe, it is also a key parameter of the standard cosmological model. H_0 affects several physical processes, different cosmic epochs and multiple observables. There are more than a dozen ways to measure H_0 , which with few exceptions, yield values that gather around two “camps” which do not agree with each other at high statistical significance (this is referred to as “Hubble Tension”). There are three options to “fix” the Hubble Tension. Beside systematics in the data analysis, it’s either a modification of the standard cosmological model at early times or a global modification touching the model’s fundamental assumptions, which would really imply Hubble troubles! None of these three options has the consensus of the community.

Presenter: VERDE, Licia