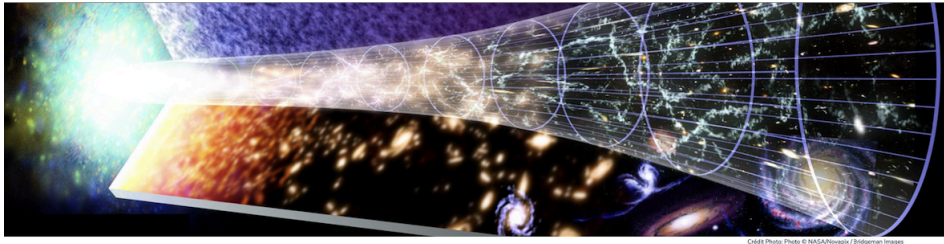


GDR CoPhy Episode 2



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Updated Constraints on Hubble Tension Solutions

jeudi 23 mai 2024 11:50 (20 minutes)

“Since its appearance almost a decade ago, the Hubble Tension received a great deal of proposals to solve it, with none being completely successful. However, new state of the art data improve our assessment of these models and better constrain their parameters.

In this talk, which is based on the work in arXiv: 2312.09814, an evaluation of eleven cosmological models is presented. These models consist of five classical extensions of Λ CDM, Early Dark Energy, the Majoron and the varying electron mass models, along with three of the latter’s extensions. This evaluation, previously performed using Planck, ACT and SDSS data (up to DR-12), is now updated with recent SPT-3G, SDSS-DR16 and SH0ES data.

Using a set of novel tension metrics, these models are ranked based on which one is able to reduce the tension, and which requires further study before potentially becoming the new concordance model of Cosmology.”

Orateur: KHALIFE, Ali Rida