Cosmological Frontiers in Fundamental Physics Triangular Conference : APC - Perimeter - Solvay 2021



ID de Contribution: 2 Type: Non spécifié

Hubble troubles

mardi 25 mai 2021 15:00 (40 minutes)

The distance ladder relying on supernovae yields higher values of the Hubble constant H0 than those inferred from the inverse distance ladder, calibrated on early-time physics and relying on observations typically involving cosmic microwave background (CMB) in combination with galaxy surveys. Such discrepancy has come to be known as the 'Hubble tension'. This has motivated the exploration of extensions to the standard cosmological model in which higher values of H0 can be obtained from CMB measurements and galaxy surveys. The trouble, however, goes beyond H0; such modifications affect other quantities too, such as cosmic times, age of the Universe and the matter density. Any Hubble trouble has implications well beyond H0 itself. I will recap some recent results and try to look at the tension in both a model-dependent and model independent way.

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Classification de Session: First Session, Tuesday