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w = -1.73 solves the Hubble tension, but destroys the universe

Tuesday 14 May 2024 16:00 (15 minutes)

The "Hubble tension"refers to a disagreement between the present expansion rate of the universe, and that projected by applying our current model ("Lambda Cold Dark Matter"or Lambda-CDM) to early universe measurements; Lambda-CDM yields an expansion rate substantially different from current measurement, by more than five standard deviations. We describe the model, in particular the meaning of Lambda, which has a parameter w = -1. We find that if instead w = -1.73, the projected expansion rate comes out right; however, any w < -1 will cause the end of the universe in a finite time. We present the mathematics and some conclusions.

Mini Symposia (Invited Talks Only)

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