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Cosmological Tensions in a Coupled Dark Sector

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Reconciling the standard model's theoretical predictions with precision measurements from mul- tiple probes stands as one of the most pressing challenges of modern cosmology. During the last decade, increasing evidence for persistent discrepancies in the value of cosmological param- eters when inferred from model-dependent and -independent probes opened the door for a new paradigm. In this talk, I will address whether (part of) the cosmological tensions can be attributed to missing physics in the standard model. In particular I will focus on tests of different models with interactions between dark energy and dark matter.

Presenter(s) : ELSA TEIXEIRA