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Model-independent tests of the standard cosmological model

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The standard cosmological model, namely the flat Λ CDM model, has been tremendously successful in describing cosmological observations for over two decades. Still, it suffers from theoretical caveats, in addition to recent problems like the SH0ES tension between H_0 measurements from the early- and late-time Universe. In light of these issues, I will show results of some null tests of fundamental assumptions underlying the standard model in a model-independent fashion, such as a null test of the FLRW assumption, the variability of the speed of light, and the evidence for late-time cosmic acceleration.

Author: BENGALY, Carza (Observatório Nacional)**Presenter:** BENGALY, Carza (Observatório Nacional)**Session Classification:** Parallel Session Lecture Room**Track Classification:** Statistical Methods and Tensions in Cosmology