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Cosmology results from the Dark Energy Survey

Tuesday, 23 August 2022 11:00 (40 minutes)

The Dark Energy Survey (DES) is a 5000 square degree galaxy imaging survey which completed six years of observations in 2019. By measuring the shapes and colors of more than 200 million galaxies in addition to conducting a supernova survey, DES is a multi-purpose experiment that is able to study the large-scale properties of the Universe using measurements of weak gravitational lensing, galaxy clustering, galaxy clusters, and supernovae in order to test Λ CDM as the standard cosmological model. This talk will primarily focus on the survey's combined analysis of galaxy clustering and weak lensing. I will describe how we use those measurements to constrain cosmology and will give an overview of the findings from the analysis of the survey's first three years of data, highlighting the recently released constraints on several model extensions to Λ CDM.

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