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The Status of Constraints on Dark Energy from Baryon Acoustic Oscillation Scale Measurements

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I will describe how the baryon acoustic oscillation (BAO) scale observed in the distribution of galaxies can be treated as a standard ruler that enables distance measurements as a function of redshift. These measurements allow precise tests on the nature of Dark Energy. I will describe the current status of BAO measurements and the constraints they afford, focusing on recent measurements from the completed Baryon Oscillation Spectroscopic Survey (BOSS) and two ongoing experiments: the Dark Energy Survey (DES) and extended-BOSS (eBOSS). I will finish with a description of what to anticipate from the final DES and eBOSS data and then the data obtained from Dark Energy Spectroscopic Instrument further in the future.

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