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Anisotropic clustering analysis of the eBOSS DR16 LRG in Fourier Space

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We explore the cosmological implications of anisotropic clustering measurements of the LRG sample from Data Release 116 (DR16) of the Sloan Digital Sky Survey IV extended Baryon Oscillation Spectroscopic Survey (eBOSS) in Fourier Space. The LRG sample observed by eBOSS offers a direct tracer of the density field between redshift $0.6 < z < 1$. By analysing the power spectrum and bispectrum we perform constraints on the angular diameter distance, Hubble parameter, and cosmic structure growth rate. We perform a measurement of Omega matter independent from CMB observations and a test of GR by comparing the growth of structure with the expansion history rate.

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