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Photometric BAO measurements with DES

Thursday, 14 December 2023 15:00 (10 minutes)

We present the Baryonic Acoustic Oscillations (BAO) measurements using the First Three Year data from the Dark Energy Survey (DES). We describe the data sample and the mock catalog used for BAO measurements. In addition to the tomographic analysis results, I will also present the alternative projective 3D correlation function analysis. The DES Y3 BAO measurement gives the most precise BAO constraint from photometric data. I will also mention some of the ongoing DES Y6 BAO measurement results. Finally, I discuss the possibility of reconstructing the photometric BAO signals.

Primary author: CHAN, Kwan Chuen (Sun-Yat Sen University)

Presenter: CHAN, Kwan Chuen (Sun-Yat Sen University)

Session Classification: Cosmology with large-scale structure