

Abstract Submitted
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Application of Wavelet Packet Analysis to the Measurement of the Baryon Acoustic Oscillation KEVIN KADOWAKI¹, NOEL GARCIA, TAUREAN FORD, JESUS PANDO, DePaul University, SDSS-FAST COLLABORATION — We develop a method of wavelet packet analysis to measure the Baryon Acoustic Oscillation (BAO) peak and apply this method to the CMASS galaxy catalog from the SDSS Baryon Oscillation Spectroscopic Survey (BOSS) collaboration. We compare our results to a fiducial Λ CDM flat cosmological model and detect a BAO signature in the power spectrum comparable to the previous consensus results of the BOSS collaboration. We find $D_A = 1365r_d/r_{d, fid}$ at $z = .54$.

¹Member ID Forthcoming

Kevin Kadowaki
DePaul University

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