Abstract Submitted
for the APR15 Meeting of
The American Physical Society

Mapping matter jointly with CMB lensing and Large Scale Structure KEVIN HUFFENBERGER, FELIPE MALDONADO, ADITYA ROTTI, Florida State University — In the near future, Stage III and Stage IV Cosmic Microwave Background experiments will measure to high precision the lensing distortions that trace matter fluctuations in the universe. On a similar timescale, WFIRST, EUCLID, DESI, LSST, and other surveys will provide galaxy redshift information, imaging, and cosmic shear data over large regions of the sky. Taking a holistic, Bayesian approach to combine datasets, we seek to understand keenly the statistical properties of joint estimates of the matter distribution and its correlations, including their non-Gaussian likelihoods.

Kevin Huffenberger
Florida State University

Date submitted: 09 Jan 2015 Electronic form version 1.4