

Abstract Submitted  
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**Searching for Variable Stars in the DES Tertiary Standard Star Fields**<sup>1</sup> SAMUEL WYATT, Austin Peay State University, Fermi National Accelerator Laboratory, DOUGLAS TUCKER, Fermi National Accelerator Laboratory, DARK ENERGY SURVEY COLLABORATION — The Dark Energy Survey (DES) is a 5000 deg<sup>2</sup> grizY imaging survey to be conducted using a proposed 3 deg<sup>2</sup> wide-field mosaic camera on the CTIO Blanco 4-m telescope. The primary scientific goal of the DES is to constrain dark energy cosmological parameters via four complementary methods: Galaxy Cluster Counting, Weak Gravitational Lensing, Baryon Acoustic Oscillations, and Type Ia Supernovae, supported by precision photometric redshifts. We present background on the DES and Tertiary Standard star fields used in the survey, methods for searching for Variable Stars, and the results received from the search.

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