

Abstract Submitted
for the OSF16 Meeting of
The American Physical Society

Identification and Characterization of Long Period Variable Stars in M69 PAUL HUSBAND, ANDREW LAYDEN, Bowling Green Statue University, Dept. of Physics and Astronomy — We will be analyzing multiple band digital images to identify and characterize long period variables (LPVs) in the globular star cluster M69. Previous observations searching for short period variable stars identified over 50 potential variable stars, many of which appear to be LPVs. We are using images taken between 2009 and 2014 in the V and I bands to identify, photometer, and determine the period, amplitude, and mean magnitudes of these additional variable stars to classify their variability types. Our ultimate goal is to improve the census of variable stars in globular clusters and provide observations to constrain stellar pulsation models.

Paul Husband
Bowling Green Statue University, Dept. of Physics and Astronomy

Date submitted: 09 Sep 2016

Electronic form version 1.4