Abstract Submitted
for the TSS13 Meeting of
The American Physical Society

PHOEBE Modeling of Three New Binaries in Hercules JEFFREY SCHNIEDERJAN, RICHARD OLENICK, ARTHUR SWEENEY, JAMES MEIER, MATTHEW HEUSER, University of Dallas, STEXTS TEAM — We report the results of modeling of three new binaries in Hercules discovered through time-resolved photometry by the Small Telescope Exoplanet Transit Search (STExTS) project. Observations were made with a 200 mm astrograph f/1.5 stopped down to an f/2.8 in the R band over a period of seven weeks in summer 2012 in Pitkin, CO. A total of 10,500 calibrated images and PHOEBE were used to model the light curves of the newly discovered binaries GSC 2087-1870, GSC 2083-1875, and GSC 2087-0364. The binaries' parameter and classifications will be presented.

Jeffrey Schniederjan
University of Dallas

Date submitted: 04 Mar 2013 Electronic form version 1.4