

Abstract Submitted  
for the NWS05 Meeting of  
The American Physical Society

**Ongoing Observations and Interpretation of Light Curves of a Eclipsing Binary Star System: 44I-Bootes<sup>1</sup>** KASANDRA JORGENSEN, SATOMI SUGAYA, THOMAS OLSEN, Lewis & Clark College, Portland, OR, CHRISTINA THOMPSON, Milwaukie High School, Milwaukie, OR — We report results from the last year in a decades long study of the eclipsing binary star system: 44I-Bootes. Light curves, representing the intensity of illumination received from the system over the course of a night were measured. This system has demonstrated a consistent rate of slowing over the last century. In addition, we observe a residual oscillation in the times of eclipse with a 58 year period and a 10 minute amplitude. Possible interpretations of this oscillation will be presented.

<sup>1</sup>This research was supported by the Rogers Science Research Program and M. J. Murdock Charitable Trust Partners in Science grant 2003243

Thomas Olsen  
Lewis & Clark College

Date submitted: 10 Apr 2005

Electronic form version 1.4