

Abstract Submitted
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Modeling of Eclipsing Binary System NSVS 5726288 MATTHEW KNOTE, Ball State Univ — NSVS 5726288 is a short-period eclipsing binary system discovered by the NSVS (Northern Sky Variability Survey), a survey conducted in the early 2000s that produced light curves for over 14 million objects ranging from 8th to 15th magnitudes in order to identify variable stars in the northern celestial hemisphere. My observations of NSVS 5726288 comprise the first follow-up study to the original survey. I have used the light curves produced from my observations to model the system using the Wilson-Devinney code, allowing for the determination of system characteristics such as inclination, component temperatures, and the mass ratio.

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