

Abstract Submitted
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Astronomy at Tarleton State University: Photometric Investigation of the Eclipsing Binary Star CygIV-16062¹ SHAUKAT GODERYA, Tarleton State University — Tarleton State University observatory is located at the Hunnewell Ranch about 10 miles from the campus in Stephenville, Texas. It has the largest telescope of any undergraduate only institution, a 32 inch (.8m) research grade remotely controlled telescope from ACE equipped with a high quality FINGERLAKES CCD camera and UBVRI filters from custom scientific. The observatory has been used for a variety of research projects as well as teaching observational astronomy to undergraduate students. A research initiative to obtain detail photometric data on poorly studied and faint eclipsing binary stars was started in late 2011. In addition, new binary systems discovered by the Kepler mission have also been included in this project. This paper presents work that our students have performed on CygIV-16062 (2MASS J19155176+4306271) a new eclipsing binary star identified in Kepler field of view.

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