

Abstract Submitted
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Optical Observation of Low Mass X-Ray Binary J1753.4-0126¹

AURELIO PAEZ, PAUL A. MASON, University of Texas at El Paso, Department of Physics, E.L. ROBINSON, University of Texas at Austin, Department of Astronomy — We conducted optical observations of the black hole candidate J1753.4-0126 with the 82 inch (2.1 m) Otto Struve Telescope at the McDonald Observatory. A total of 20 nights of data were collected from May 2010 through June 2011. Data was reduced using the Interactive Reduction and Analysis Facility (IRAF). We present the resulting light curves. We discuss our progress in this analysis, which uses a phase dispersion minimization code in order to find periodicity. This research is supported by a National Science Foundation Partnership in Astronomy and Astrophysics Research and Education (PAARE) grant to the University of Texas at El Paso.

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