
V, I band photometry of the black hole binary XTE J1118+480Yang-Chan Jung¹, Hee-Won Lee¹¹*Department of Astronomy and Space Sciences, Sejong University*

We performed V, I band photometry of the halo black hole binary XTE J1118+480 on the nights of Feb. 19, 20, 2002. Due to the tidal gravity from the primary believed to be a black hole of mass $6.0-7.7 M_{\odot}$, the companion with the spectral type K7V-M0V exhibits ellipsoidal light variation with the amplitude 0.5 mags and period 0.3 days. From our light curves, we confirm the results obtained in the previous studies and discuss the effect of the Doppler beaming that predicts the asymmetrical maxima in the photometric phases 0.25 and 0.75..