CCD LIGHT CURVES OF ROTSE1 VARIABLES, III: GSC 2625.1563 HERCULIS

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Name of the object:
GSC 2625.1563 = ROTSE1 J180835.74+334205.7

Equatorial coordinates:		Equinox:
R.A.= $18^h08^m35.74^s$ **DEC.**= $+33°42'05.7''$		2000.0

Observatory and telescope:
Private observatory, Schlüsselacher, Wald, 0.15-m refractor

Detector:	SBIG ST-7 CCD camera

Filter(s):	None

Comparison star(s):	GSC 2625.1672

Check star(s):	GSC 2629.1855

Availability of the data:
Upon request from diethelm@astro.unibas.ch

Type of variability:	EW

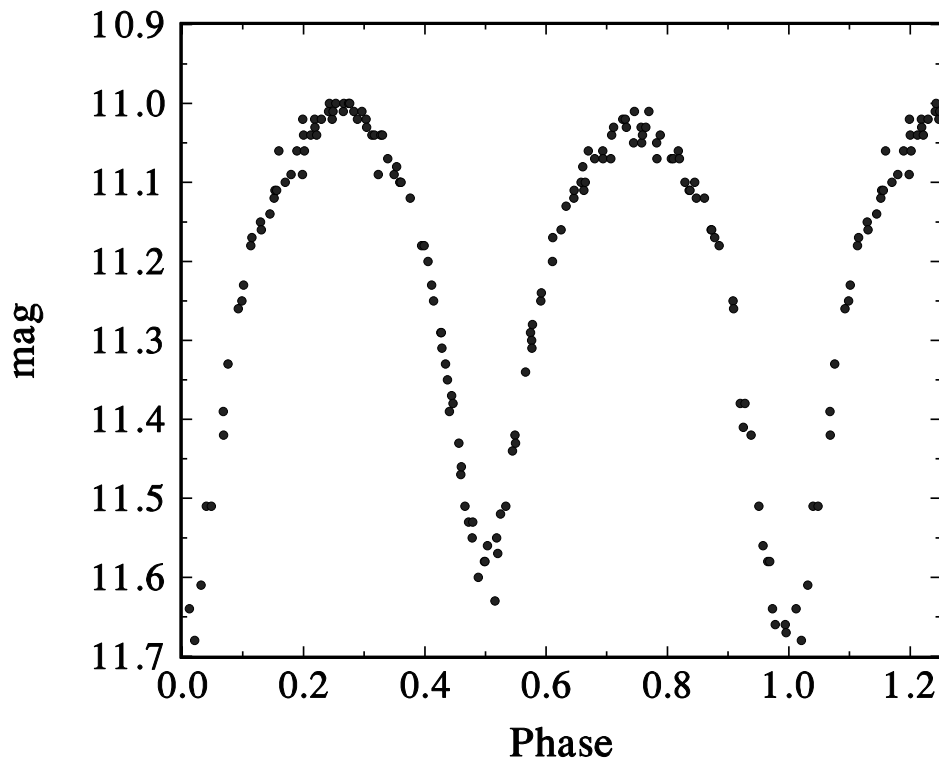| Remarks: |
| --- |
| As a byproduct of the ROTSE1 CCD survey, a large number of new variables have been discovered (Akerlof et al., 2000). In a series of papers, we report unfiltered CCD observations for some of the close binary systems (type EW and E) in the list of Akerlof et al. (2000). GSC 2625.1563 was observed with our CCD equipment as mentioned above during 4 nights between JD 2451746 and JD 2451781. A total of 155 CCD frames were measured and Figure 1 shows these observations folded with the elements $$JD(\min, \text{hel}) = 2451746.5126(4) + 0.2942801(12) \times E.$$ These elements of variation are deduced from a linear fit to the newly determined normal minima from the ROTSE1 data (JDH 2451258.8894(8), primary, JDH 2451277.8726(4), secondary) as well as the 6 minima (2 primary, 4 secondary) published in BBSAG Bulletin 123. |

Figure 1. CCD light curve (without filter) of GSC 2625.1563

References:

Akerlof, C., Amrose, S., Balsano, R., Bloch, J., Casperson, D., Fletcher, S., Gisler, G., Hills, J., Kehoe, R., Lee, B., Marshall, S., McKay, T., Pawl, A., Schaefer, J., Szymanski, J., Wren, J., 2000, *AJ*, **119**, 1901

Blättler, E., 2000, *BBSAG Bulletin*, No. 123, 6