

GSC 4540_1553 IS A NEW BINARY STAR

CCD images taken at the Bohyunsan Optical Astronomy Observatory (BOAO) with the 1.8-m telescope and at the Kyung Hee Astronomy Observatory (KHAO) with the 0.76-m telescope on Jan. 21-Mar. 5, 1997 show that the star GSC 4540_1553 ($V=15.22$), located at R.A.= $08^{\text{h}}11^{\text{m}}42^{\text{s}}.66$, Decl.= $+76^{\circ}04'53''.22$ (equinox 2000.0) varies in magnitude. From the preliminary analysis of the light curve, I derive the period of 1.1799 day with 0.52 mag (in R) variation in primary and 0.45 mag (in R) variation in secondary minimum using GSC 4540_2581 and GSC 4540_1931 as the comparisons. It is considered as an Algol type eclipsing binary star. The light curve shown is the combined data of Jan. 21-22, 24, 1997 and Feb. 1, 1997 using GSC 4540_2581 as a comparison. The average $B-V$ colour index of this new variable is $0^{\text{m}}.03$ out of minima.

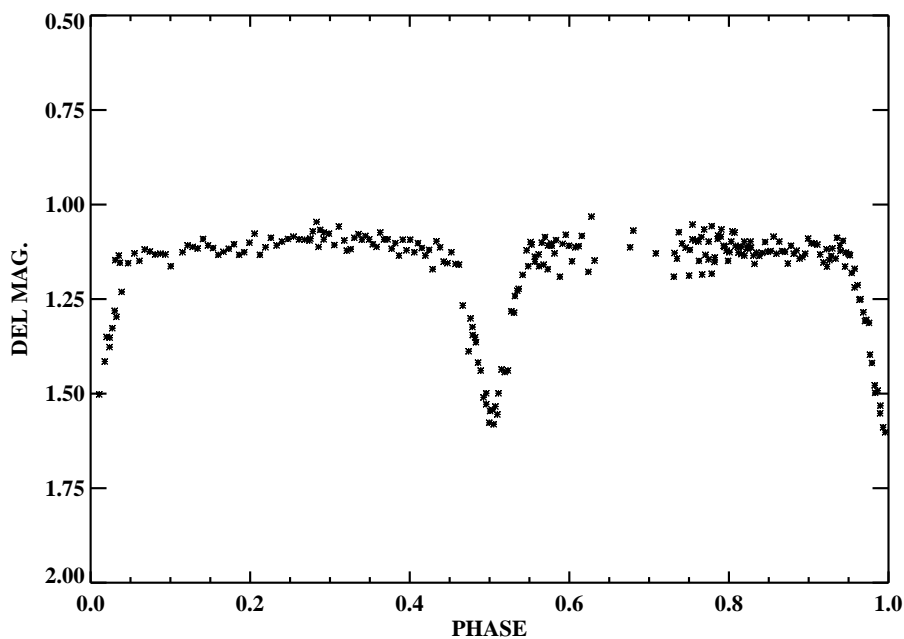


Figure 1. Light curve of the new variable. *R* filter data

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