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FIRST PHOTOMETRIC OBSERVATIONS OF MR DELPHINI

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Name of the object:

Type of variability:

EA

$MR Del = BD +04^{\circ}4470 = HIP 101236 = HD 195434$	
es:	Equinox:
	2000
escope:	
TÜBİTAK (Scientific and Technical Research Council of Turkey) National Observatory, 40-cm Cassegrain telescope	
Hamamatsu, R 4457 (PMT)	
Johnson B, V and R	
$BD + 04^{\circ}4463 = HD 195235$	
$BD + 04^{\circ}4476 = PPM 170209$	
Transformed to a standard system: No	
Availability of the data: Upon request	
	es: DEC.= $+05^{\circ}13'06''.1$ escope: ad Technical Research Council of the telescope Hamamatsu, R 4457 (PMT) Johnson B, V and R BD $+04^{\circ}4463 = \text{HD } 195235$ BD $+04^{\circ}4476 = \text{PPM } 170209$ and and system: No

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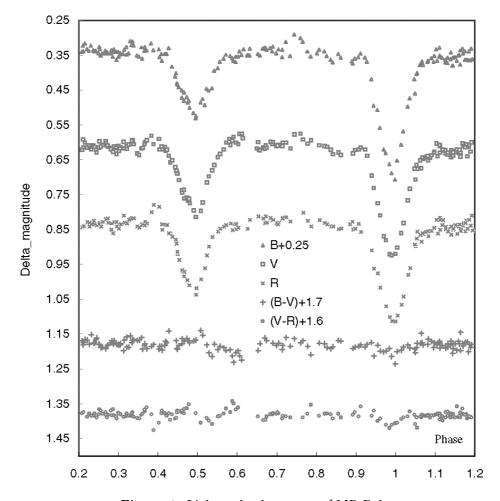


Figure 1. Light and color curves of MR Del

Remarks:

The relatively bright EA type eclipsing binary MR Del was discovered by HIPPAR-COS (ESA, 1997). The photometric observations of the system by HIPPARCOS show an Algol type light curve. The variation range of this light curve is between from $8^{\text{m}}87$ to $9^{\text{m}}13$. (Note an apparent misidentification on this values in the SIM-BAD database.) The mean orbital period derived by HIPPARCOS from the light curve fit is $0^{\text{d}}52169$ and the epoch is given as JD 2448500.5160 (ESA, 1997). Spectral type of the system is given as K0. MR Del was observed on 10, 13, 15, 16 and 18 July 2000 at the TÜBİTAK National Observatory. The light and color curves are plotted in Figure 1. The magnitudes are plotted relative to the comparison star in this figure. There are some small irregular variations in both B-V and V-R color curves.

Acknowledgements:

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Reference:

ESA, 1997, The Hipparcos and Tycho Catalogues, SP-1200