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THE NEW BRIGHT RR Lyr NSV 01470

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Name of the object:

Type of variability:

RRab

| $GSC 4068_447 = NSV 01470 = CSV 006077 = BV 0311$ | | |
|---|-----------------------------|----------|
| | | |
| Equatorial coordinates: | | Equinox: |
| R.A. = $04^{\rm h}09^{\rm m}40^{\rm s}$ DEC. = $+62^{\circ}27'12''$ | | 2000.0 |
| | | |
| Observatory and telescope: | | |
| Monegrillo Observatory, 0.4-m Newtonian telescope; | | |
| Esteve Duran Observatory, 0.6-m Cassegrain telescope | | |
| | | |
| Detector: | CCD | |
| | | |
| Filter(s): | V and B | |
| | | |
| Comparison star(s): | GSC 4068_1369 | |
| | | |
| Check star(s): | GSC 4068_472; GSC 4068_1431 | |
| | | |
| Transformed to a standard system: No | | |
| | | |
| Availability of the data: | | |
| Upon request | | |
| | | |

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2 IBVS 4903

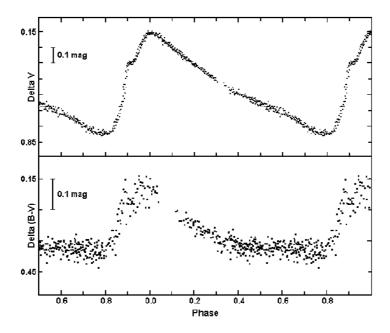


Figure 1.

Remarks:

Its variability was initially reported by Strohmeier and Knigge (1960), who indicated that this star presented rapid light changes between the photographic magnitudes of 11.8 and 12.5. This object was afterwards listed as an 'S' type variable in the NSV catalogue (Kholopov 1982). Observations performed in the B and V bands between December 1999 and March 2000 indicate that this object is an RRab Lyrae star. Although no photometric standarization was performed, previous collaborative work with the USNO Flagstaff station (Henden et al. 1999, Henden and Vidal 1997) showed that differential photometry performed at Monegrillo and Esteve Duran Observatories are virtually on the Johnson standard system, therefore we can estimate the standard amplitude in V and of the color index B-V after using the derived Johnson V and B-V magnitudes from the TYCHO photometric data for the comparison star. These results indicate that V light changes of NSV 01470 are within 11^m10 and 11^m75, and that the B-V color index ranges between 0^m75 and 0^m95. The following ephemeris was computed in the V band:

Max. = HJD
$$2451578.480 + 0.572092 \times E$$
.
 $\pm 0.010 \pm 0.000100$

References:

ESA, 1997, The Hipparcos and Tycho Catalogues, ESA SP-1200 Henden A. A., Guarro-Flo, J., García-Melendo, E., 1999, *IBVS*, No. 4807 Henden, A.A., Vidal-Sainz, J., 1997, *IBVS*, No. 4535 Kholopov, P.N., editor, 1982, New Catalogue of Suspected Variable Stars, Moscow Strohmeier W., Knigge R., 1960, *Bamb. Ver.*, 5, No. 5