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UBV OBSERVATIONS OF 88 Her (V744 Her)

This star has been photoelectrically observed from June 1978 to September 1980, in order to follow the long term variation of its light and colour. The photometer is equipped with an unrefrigerated 1P21 photomultiplier. A single channel V/F converter

Table

UBV OBSERVATIONS OF 88 Her				
J.D.	V	B-V	U-B	N
2440000+				
3664.387	6.942 ±0.007	-0.156 ±0.019	-0.469 ±0.023	3
3688.405	6.878 ±0.011	-0.124 ±0.037	-0.459 ±0.028	3
3689.378	6.886 ±0.019	-0.143 ±0.011	-0.446 ±0.008	3
3695.377	6.871 ±0.003	-0.138 ±0.008	-0.420 ±0.090	3
3698.369	6.839 ±0.052	-0.135 ±0.065	-0.411 ±0.017	2
3707.388	6.887 ±0.036	-0.159 ±0.034	-0.452 ±0.043	3
3710.386	6.875 ±0.010	-0.138 ±0.023	-0.445 ±0.024	3
3759.345	6.874 ±0.014	-0.156 ±0.010	-0.420 ±0.070	3
3775.322	6.884 ±0.022	-0.118 ±0.042	-0.409 ±0.035	3
3788.303	6.869 ±0.007	-0.155 ±0.036	-0.394 ±0.026	3
3798.255	6.826 ±0.007	-0.122 ±0.007	-0.413 ±0.010	3
3805.275	6.859 ±0.012	-0.123 ±0.017	-0.426 ±0.025	4
3810.259	6.847 ±0.008	-0.137 ±0.006	-0.402 ±0.013	4
4131.358	6.797 ±0.016	-0.128 ±0.015	-0.399 ±0.012	3
4395.442	6.789 ±0.011	-0.138 ±0.016	-0.390 ±0.021	3
4406.388	6.768 ±0.007	-0.138 ±0.002	-0.374 ±0.013	3
4410.404	6.774 ±0.003	-0.144 ±0.005	-0.380 ±0.004	4
4426.403	6.768 ±0.013	-0.129 ±0.018	-0.393 ±0.014	5
4442.359	6.785 ±0.018	-0.145 ±0.010	-0.389 ±0.005	3
4456.410	6.771 ±0.010	-0.141 ±0.017	-0.387 ±0.008	3
4461.355	6.769 ±0.004	-0.138 ±0.013	-0.393 ±0.013	3
4465.394	6.764 ±0.007	-0.135 ±0.015	-0.389 ±0.016	3
4485.408	6.762 ±0.010	-0.128 ±0.022	-0.411 ±0.025	3
4523.292	6.777 ±0.005	-0.134 ±0.014	-0.401 ±0.011	3

provides a direct print of deflections and times. The telescope is a 400 mm \emptyset , $f=200$ mm newtonian reflector. The observed magnitudes and colour indices reduced to the standard UBV system are listed in the table as nightly normals with their probable error.

HD 162132 was used as comparison star with the following UBV values:

$V=6.493$, $B-V=+0.070$, $U-B=+0.080$ (Harmanec et al. 1978)

The magnitude of 88 Her turned to increase from JD 2443770 as confirmed by Nakagiri and Hirata (1979) and Magalashvili and Kumsishvili (1980). It is confirmed that the photometric variation is similar to the light variation of Pleione and not of eclipsing pattern. The similar spectral behaviour of 88 Her and Pleione have been pointed out by Hirata (1978). The observations do not show any appreciable evidence of the spectroscopic period of about 87^Y although it may be suspected from some phase-magnitude plots. Further observations of the system will be very interesting.

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