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NEW BRIGHT VARIABLE STAR

According to our photoelectric observations the star BD + 40°4502 (= PD 12356 = HD 203712 = No 102090 in Moscow Catalogue of Stars Suspected of Variability) appears to be a semiregular or irregular variable. Spectral type : gM6(WILSON), brightness : $7^m,24$ (HR). The comparison star used was BD + 40°4503, B5, $7^m,42$ (HR). The visual brightness of the variable declined from $7^m,53$ on October 11, 1961 to $7^m,87$ on October 31, and thereafter increased with marked fluctuations to $7^m,49$ on December 18, 1961. On November 15, 1960 the brightness of the variable was $7^m,42$. The star was suspected of variability already by PICKERING (HA 45) and by MÜLLER and KEMPF (Potsdam Publ. 17).

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W i e n

SZ LYNCIS

This bright variable (BD + 44°1718, $8^m,8$) was recently shown by SCHNELLER (AN 286,102.1961) to be an RR Lyrae-star belonging to the short-period group. In February and March, 1962 about 600 observations were obtained in blue and yellow colours with a photoelectric photometer coupled to our 24-inch reflecting telescope. These observations, combined with Schneller's epochs, provide the ephemeris:

Max.helio. = J.D. 2437718,5568 + $0^d,12053487$. E.

The light-range is $0^m,67$ in blue and $0^m,54$ in yellow. No beat-phenomenon is apparent in the light-variations of the star, but the light-curve shows minor deviations from epoch to epoch.

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THE PERIOD OF SZ LYNCIS

Using SCHNELLER's photoelectric observations (AN 286,102,1961) and the epochs of maxima and minima published by SOLOVIEV (Astr.Circ. USSR 159,17) and ZESSEVITCH (Astr.Circ.USSR 170,16) the following formula was obtained for times of maximum light:

Max = 2437368,403 + 0^d,12053473. E, P^{-1} = 8,29636404

The epochs of minima given by Zessevitch were transformed to epochs of maxima by addition of a correction $+0^d$,050 (to the visual minima a correction $+0^d$,045 was applied).

The residuals corresponding to the formula above, listed under the heading O - C, are, in general, large owing to the low accuracy of the epochs.

Maxima		O - C	Maxima		O - C
2433357,20	S	$+0^d$,012	2434414,20	S	-0^d,017
3392,20	S	-0,003	4440,359	Z	-0,014
3946,549	Z	+0,006	4445,21	S	+0,015
3947,607	Z	-0,020	5592,339	Z vis.	+0,015
4034,18	S	+0,009	5593,392	Z "	-0,017
4041,522	S	-0,002	7368,403	Sch pe.	0,000
4064,437	Z	+0,011			

S = Soloviev, Z = Zessevitch, Sch = Schneller

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