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BP VULPECULAE

In the General Catalogue of Variable Stars this star has been classified as RR Lyrae type variable. By photoelectric observations at Budapest E. Illés-Almár found the star to undergo minima like an eclipsing variable, thus confirming the statement of the discoverer (Hoffmeister,⁽¹⁾). She has given the provisional elements:

$$\text{Min.} = \text{J.D. } 243\ 6860.331 + 1^{\text{d}}.938.E \quad (2)(3).$$

Observations of faint light on Sonneberg plates yielded the improved formula:

$$\text{Min.} = \text{J.D. } 243\ 7438.547 + 1^{\text{d}}.940\ 346.E.$$

From the mean light curve the following characterizing data can be derived:

$$\text{Algol type, } A_1 = 0^{\text{m}}.9, \quad A_2 = 0^{\text{m}}.4, \quad D = 0^{\text{p}}.1.$$

The observations of Strohmeier and Ott (4) are also in accordance with the improved elements.

Observed times of faint light:

J.D.	m_{pg}	E	O-C	
242 5831.362		-5982	-0 ^d .035	S.O.
6512.439		5631	-0.020	S.O.
6545.469		5614	+0.024	S.O.
6647.308		5561.5		S.O.
6648.332		5561	+0.049	S.O.
6868.522		5447.5		S.O.
6930.399				S.O.
8074.410		4826	-0.027	S.O.
8078.299		4824	-0.019	S.O.
9114.476		4290	+0.013	S.O.

(1) AN 255. 406; 1935
 (2) EBC 1 - EBC 32; 1960

(3) AZ 210. 21; 1960
 (4) Bamberg Veröff. V, 12; 1961

Continued

J.D.	m_{pg}	E	O-C	
243 4221.446	10.7	-1658	-0.007	H.
4580.427	10.9	1473	+0.010	H.
5224.585	10.9	1141	-0.027	H.
5226.576	11.0	1140	+0.023	H.
5721.355	11.0	885	+0.014	H.
6433.446	11.0	518	-0.002	H.
6790.450	10.9	334	-0.021	H.
6860.331		298	+0.007	I.
7116.458	10.7	166	+0.008	H.
7438.547	11.3	0	0	H.
7642.260	10.7	105	-0.023	H.
7898.427	11.0	237	+0.018	H.
7933.365	10.7	255	+0.030	H.
7935.294	11.1	256	+0.018	H.
8001.256	11.1	290	+0.009	H.
8255.437	10.9	421	+0.004	H.
8323.326	10.8	456	-0.019	H.
8614.433	10.7	606	+0.036	H.

S.O. = W. Strohmeier and H. Ott; H. = H. Huth; I. = E. Illés-
Almár.

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