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LIGHT ELEMENTS OF HD 123732

The eclipsing character of HD 123732 was discovered by Bond (1970) on Curtiss-Schmidt prism-objective plates and confirmed by γ -photoelectric observations.

We report in this Note the times of minimum and light elements obtained from 231 UBV observations secured at Bosque Alegre Station of Córdoba Observatory. They were made with the 60 inch telescope of the Observatory through a UBV set of standard filters and an RCA 1P21 multiplier refrigerated in a box containing dry ice. The observations show the system to be a W UMa star with shallow and almost equal minima.

We derived six times of minimum for each light curve in U, B, and V. They are listed in Table I; the residuals (O-C) and cycles are from the linear least squares ephemeris:

$$P.M. = JD_{hel.} 2442196.09732 + 0^d 39395129 \cdot E$$

±47 ±35

including two times of minimum computed from the γ -observations kindly supplied by Dr. Bond.

Table I: Times of minimum of HD 123732

Min.	Color	JD hel. 2440000 +	W	Cycles	O-C
I	V	649.8352	2	-3925.0	-0.0032
II	V	650.0381	3	-3924.5	+0.0027
I	V	2122.8225	3	-186.0	+0.0001
	B	.8194	3	-186.0	-0.0030
	U	.8211	3	-186.0	-0.0013
II	V	2195.5057	1	-1.5	-0.0007
	B	.5039	1	-1.5	-0.0025
	U	.4996	1	-1.5	-0.0068
I	V	2195.7032	3	-1.0	-0.0001
	B	.7032	3	-1.0	-0.0001
	U	.7035	3	-1.0	+0.0002
I	V	2196.4931	1	+1.0	+0.0018
	B	.4887	1	+1.0	-0.0026
	U	.4908	1	+1.0	-0.0005
II	V	2196.6855	2	+1.5	-0.0027
	B	.6861	2	+1.5	-0.0021
	U	.6879	2	+1.5	-0.0003
II	V	2221.5121	2	+64.5	+0.0049
	B	.5124	2	+64.5	+0.0052
	U	.5139	2	+64.5	+0.0067

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Reference:
 Bond, H.E. 1970, Pub.A.S.P., 82, 1065