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MW PAVONIS

Tha variability of MW Pav (BV894 = HD 197070 = CoD-72°1636) was announced by O.J.Eggen (IBVS 308A,1968). W.Strohmeier (IBVS 308B, 1968) published a list of observed times of minima and obtained a period of $0^d.562979$. However, this period was found to be incompatible with minima observed by R.M.Williamon (IBVS 574,1971) who deduced $P = 0^d.79499080$. In this note we present times of minimum derived from 390 photoelectric UBV observations made at the Bosque Alegre station of Cordoba Observatory with the 1.54m reflecting telescope. Individual minima are listed in Table I together with the older photographic ones from Strohmeier, Eggen and Knigge, and the photoelectric minima from Williamon. They were used to determine the following least square linear ephemeries:

$$\text{Min.I=JD hel } 2440862^d.6076 \pm .0013 + 0^d.79498855 \pm .00000091\ E$$

The W column in Table I gives the weights assigned to each observation. The residuals (O - C) are distributed at random for both minima; therefore, we infer that the secondary minimum is not displaced from phase $\phi = 0.5$ as pointed out by Williamon (c/f above).

The observations of the system will be completed in the next observing seasons; at present, they cover well the secondary minimum and the preceding maximum. The secondary minimum shows constant light during an interval of about 125 minutes, indicating it to be a total occultation. The differential light and color curves are shown in the Figure, the differences are given in the sense variable star -minus- comparison star (HD 197417).

1974 August 1

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Times of Minimum

JD hel. 243....		E	W	(O - C)
8204.542	(S)	-3343.5	1	-0.021
8228.465		-3313.5	1	+0.052
8263.395		-3269.5	1	+0.002
8267.336		-3264.5	1	-0.031
8295.222		-3229.5	1	+0.030
8314.276		-3205.5	1	+0.004
8316.278		-3203.0	1	+0.019
8555.549		-2902.0	1	-0.002
8641.402		-2794.0	1	-0.008
8649.311		-2784.0	1	-0.048
8992.401		-2352.5	1	+0.004
8994.412		-2350.0	1	+0.028
9029.333		-2306.0	1	-0.031
9374.375		-1872.0	1	-0.014
9376.374		-1869.5	1	-0.002
9378.372		-1867.0	1	+0.008
9380.374		-1864.5	1	+0.023
9404.252		-1834.5	1	+0.051
9654.198		-1520.0	1	-0.027
9656.198		-1517.5	1	-0.014
244....				
0064.049		-1004.5	1	+0.007
0068.021	(S)	- 999.5	1	+0.004
0120.058	(E)	- 934.0	1	-0.030
0120.083		- 934.0	1	-0.005
0120.933		- 933.0	1	+0.050
0122.888		- 930.5	1	+0.017
0124.005		- 929.0	1	-0.058
0124.010		- 929.0	1	-0.053
0124.016		- 929.0	1	-0.047
0440.037	(K)	- 531.5	1	-0.034
0450.013		- 519.0	1	+0.004
0451.983		- 516.5	1	-0.013
0722.290		- 176.5	1	-0.002
0746.188		- 146.5	1	+0.046
0750.164	(K)	- 141.5	1	+0.047
0862.6111	(W)	0.0	2	+0.0035
0862.6080		0.0	2	+0.0004
0862.6100		0.0	2	+0.0024
0863.8065		1.5	2	+0.0064
0863.8084		1.5	2	+0.0083
0863.8065		1.5	2	+0.0064
0864.6035		2.5	2	+0.0084
0864.6043		2.5	2	+0.0092
0864.6015		2.5	2	+0.0064
0870.5585		10.0	2	+0.0010
0870.5584		10.0	2	+0.0009
0870.5615	(W)	10.0	2	+0.0040
1122.146	(K)	326.5	1	-0.025
1587.6352	(L)	912.0	2	-0.0020
1587.6335		912.0	2	-0.0037
1587.6347		912.0	2	-0.0025
1589.6261		914.5	2	+0.0015
1589.6265		914.5	2	+0.0019

JD hel. 243....	E	W	(O - C)
1589.6270	914.5	2	+0.0024
1592.8031	918.5	2	-0.0015
1592.8031	918.5	2	-0.0015
1592.8007	918.5	2	-0.0039
1606.7126	936.0	2	-0.0043
1606.7132 (L)	936.0	2	-0.0037
1606.7144 (L)	936.0	2	-0.0025