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ELEMENTS FOR TWO SONNEBERG EA-VARIABLES

The derivation of periods of variable stars from sky patrol plates often leads to preliminary or even to pseudo-periods because of the special nature of the distribution of exposure times in Julian date, caused by the observing conditions. However, the majority of our announcements has been exact, respectively, has given the correct order of the period, as may be seen from later photoelectric or spectroscopic measurements.

Both variables discussed here have been discovered and classified as EA-stars by C. Hoffmeister (Erg. AN 12, Nr. 1, 1949).

S 4930 = K3Π1595 = CoD -36° 6274 (9^m.3) = CAP -36° 4216 (9^m.4) = BV 471
 Min = JD 242 8844.550 + 1^d837 962 . E

Minima	E	O - C
242 8844.568 (S) ^{x/}	0	+0.018
8880.505 (S)	19.5	+0.115
243 4368.495 (S)	3005.5	-0.050
4415.361 (S)	3031	-0.052
8407.504	5203	+0.038
8441.442 (1/2)	5221.5	-0.026
8442.444	5222	+0.056
8443.443 (1/2)	5222.5	+0.137
8489.319	5247.5	+0.063
8500.263 (1/2)	5253.5	-0.020
8501.262	5254	+0.060
8524.209 (3/4)	5266.5	+0.032
8525.206 (1/2)	5267	+0.110
8815.404 (1/2)	5425	-0.090
8816.424 (3/4)	5425.5	+0.011
8817.404 (1/2)	5426	+0.072
8827.362 (1/2)	5431.5	-0.079
8828.360	5432	0.000
8886.218 (1/2)	5463.5	-0.037
8887.218	5464	+0.044
9179.412	5623	+0.002
9202.349 (1/2)	5635.5	-0.036
9225.267 (1/2)	5648	-0.092

Ampl. 0^m70 , with a deep secondary minimum (1/2 - 3/4 of the primary minimum).

S 4939 = $K3\overline{II}1645$ = CoD -51^o5013 (9^m8) = CAP -51^o3551 (9^m5) = BV 472
 Min = JD 242 8694.240 + 2^d384 082 . E

<u>Minima</u>	<u>E</u>	<u>O - C</u>
242 8694.240 (S) ^{x/}	0	0.000
8894.502 (S)	84	-0.001
243 4369.480 (S)	2380 .5	-0.067
4517.270 (S)	2442 .5	-0.090
4561.257 (S)	2461	-0.209
4573.260 (S)	2466	-0.126
8440.406	4038	+0.039
450	4038	+0.083
8471.404	4101	+0.034
8501.306	4113 .5	+0.145
8519.255 (1/2)	4121	+0.213
8520.252	4121 .5	+0.018
8788.472	4234	+0.029
.517	4234	+0.074
8818.402 (1/2)	4246 .5	+0.158
.446 (1/2)	4246 .5	+0.202
8524 .400 (1/2)	4249	+0.196
8825.404	4249 .5	+0.008
8880.219	4272 .5	-0.011
.267	4272 .5	+0.037
8886.218	4275	+0.028
8898.210	4280	+0.099
8899.213	4280 .5	-0.090
8905.215	4283	-0.048
9179.413	4398	-0.020
.458	4398	+0.025
9210.306	4411	-0.120
.349	4411	-0.077

Ampl. 0^m70 , with a deep secondary minimum (3/4 of the primary minimum).

Remeis-Observatory
 Bamberg, November 15, 1966

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^{x/} (S) = Sonneberg; many thanks to Ing. H. Huth for his friendly support of the work with the Sonneberg plate material.