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ELEMENTS FOR SONNEBERG VARIABLES (III)

S 4806 = $\kappa 3\pi$ 233 = CoD -45° 823(9^m.1) = HD 16 308(Go) = BV 605

Min = JD 242 8776.575 + 5.^d7836 . E

Minima	E	O - C
242 8776.551(S)	0	-0.024
8782.550(S)	1	+0.191
8811.481(S)	6	+0.204
8892.297(S)	20	+0.049
243 4253.611(S)	947	-0.033
4363.440(S)	966	-0.093
4398.391(S)	972	+0.157
4548.645(S)	998	+0.037
4571.603(S)	1002	-0.139
8319.418	1650	-0.097
8348.345	1655	-0.088
.391	1655	-0.042
8354.347	1656	+0.130
8377.284	1660	-0.067
8380.273(1/4)	1660.5	+0.030
8386.279(1/4)	1661.5	+0.253
8643.544	1706	+0.147
8649.540(1/4)	1707	+0.360
8701.393	1716	+0.160
.438	1716	+0.205
8724.361	1720	-0.006
8750.285(1/4)	1724.5	-0.108
8753.285	1725	0.000
9106.285(3/4)	1786	+0.200
.328(1/2)	1786	+0.243
9360.613	1830	+0.050

Ampl. 0^m.55, with a weak (1/4) secondary minimum, EA

S 4841 = K 37450 = CoD. -45° 1704(9^m. 6) = CAP. -45° 5274(9^m. 4) = BV 641

Min = JD 242 8752.600 + 6^d.978 85 . E

Minima	E	O - C
242 8752.666(S)	0	+0.066
8815.498(S)	9	+0.088
8843.420(S)	13	+0.088
243 4419.348(S)	812	-0.088
4482.265(S)	821	+0.029
8292.596	1367	-0.088
8355.438	1376	-0.060
8404.305	1383	-0.045
8425.278	1386	-0.008
8697.521	1425	+0.060
8739.416	1431	+0.082
8753.376	1433	+0.084
8760.285	1434	+0.014
.332	1434	+0.061
.378	1434	+0.107
.425	1434	+0.134
8767.333	1435	+0.088
8788.287	1438	+0.101
9060.507	1477	+0.146

Ampl. 0^m.85, without a secondary minimum, EA

S 4915 = κ3R 1469 = CoD -55° 2785(9^m.5) = CAP -55° 2299(9^m.4) = BV 694

Min = JD 242 8655.225 + 2^d.446 80 . E

Minima	E	O - C
242 8655.269(S)	0	+0.044
8682.237(S)	11	+0.097
8794.640(S)	57	-0.053
8843.569	77	-0.060
8870.570(S)	88	+0.027
8897.516(S)	99	+0.058
8924.426(S)	110	+0.053
243 4341.583(S)	2324	-0.005
4395.404(S)	2346	-0.014
4488.409(S)	2384	+0.013
4542.246(S)	2406	+0.020
4564.249(S)	2415	+0.002
8442.397	4000	-0.028
.442	4000	+0.017
8474.288	4013	+0.055
.331(1/2)	4013	+0.098
8501.218(1/2)	4024	+0.070
.262(1/4)	4024	+0.114
8518.213(3/4)	4031	-0.063
8760.449(1/2)	4130	-0.060
.498	4130	-0.011
.510	4130	+0.001
.538	4130	+0.029
.556	4130	+0.047
8814.358	4152	+0.019
.402(3/4)	4152	+0.063
8841.292	4163	+0.039
9181.375	4302	+0.016
.421(1/2)	4302	+0.062
9198.351(1/4)	4300	-0.135
9225.267(1/4)	4320	-0.134
9230.240	4322	-0.055
9235.230	4324	+0.042

Ampl. 0^m.90, without a secondary minimum, EA

S 4931 = K3W 1596 = CoD -32° 7222(9^m.5) = CAP -32° 2863(9^m.7) = BV 718

Min = JD 242 8216.500 + 7^d.150 75 . E

Minima	E	O - C
242 8191.531(S)	-3.5	+0.059
8216.458(S)	0	-0.042
8245.384(S)	4	+0.281
243 4416.354(S)	867	+0.110
4480.362	876	-0.239
8442.442(1/2)	1430	+0.298
8471.360(1/4)	1434	+0.613
8474.331(1/2)	1434.5	+0.008
8499.265	1438	-0.085
8517.211(1/2)	1440.5	-0.016
8521.208(1/3)	1441	+0.405
8524.209(1/2)	1441.5	-0.169
8528.204(3/4)	1442	+0.250
8828.360	1484	+0.077
8878.222	1491	-0.120
8885.217(3/4)	1492	-0.277
9178.428(3/4)	1533	-0.248
9200.353(1/2)	1536	+0.224
9207.319	1537	+0.039
9232.280(1/2)	1540.5	-0.027

Ampl. 1^m.10, with a deep (1/2) secondary minimum, EA

All these four variables have been discovered by C. HOFFMEISTER (Erg. AN 12, Nr. 1, 1949), classified as EA (S 4931 as LP?). The minima (S=Sonneberg) have been determined by Miss H. GESSNER from Sonneberg sky patrol plates. For this work I am very thankful to Miss GESSNER.

Remeis-Observatory Bamberg
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W. STROHMEIER