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 Astronomisches Institut der Universität Erlangen-Nürnberg

ELEMENTS FOR SONNEBERG VARIABLES (IV)

S 4885 = κ 311099 = CAP -63° 756(9^m.5) = BV 465

Min = JD 242 8843.475 + 2^d.227 635 . E

Minima	E	O - C
242 8843.420(S)	0	-0.055
8890.386(S):	21	+0.131
8930.412(S)	39	+0.059
243 4305.492(S):	2452	-0.144
4335.538(S):	2465.5	-0.171
4352.350(S)	2473	-0.066
4422.398(S):	2504.5	-0.189
4479.315(S):	2530	-0.077
8354.527	4269.5	+0.164
8374.491	4278.5	+0.080
.535	4278.5	+0.124
8433.344	4305	-0.100
8461.251(1/2)	4317.5	-0.038
.296(3/4)	4317.5	+0.007
8471.270	4322	-0.043
8489.257(1/2)	4330	+0.123
8708.574	4428.5	+0.018
8785.316(1/2)	4463	-0.094
.362(3/4)	4463	-0.048
.383	4463	-0.027
.408	4463	-0.002
8812.271(1/2)	4475	+0.129
.315(1/4)	4475	+0.173
8822.266(3/4)	4479.5	+0.100
.310(1/2)	4479.5	+0.144
8842.253	4488.5	+0.038
9176.279(1/2)	4638.5	-0.081
.513(3/4)	4638.5	-0.047
9196.276(1/2)	4647.5	-0.133

Ampl. 0^m.55, with about the same deep secondary minimum, EA or EB

S 4949 = K3Π1754 = CAP - 77° 692(9^m.0) = BV 704, Cape: Ao

Min = JD 242 8820.600 + 2^d.228 685 . E

Minima	E	O - C
242 8820.623(S)	0	+0.023
8878.553(S)	26	+0.007
243 8524.254	4354	-0.040
.299	4354	+0.005
8553.199(1/2)	4367	-0.068
.242	4367	-0.025
8562.201	4371	+0.019
8760.556	4460	+0.021
8818.446	4486	-0.035
.492	4486	+0.011
.537	4486	+0.056
8827.362	4490	-0.034
8885.217(1/4)	4516	-0.124
.266(1/2)	4516	-0.075
.312	4516	-0.029
.359	4516	+0.018
8914.254(3/4)	4529	-0.060
9179.412(1/4)	4648	-0.116
.458(1/2)	4648	-0.070
.503	4648	-0.025
.549	4648	+0.020
9197.344	4656	-0.013
9235.275	4673	+0.030

Ampl. 0^m.35, without a secondary minimum, EA

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S 5001 = KSW2228 = CoD $-42^{\circ}9876(9^m.6)$ = CAP $-42^{\circ}6864(9^m.3)$ = BV 851

Min = JD 242 7987.310 + 0.470 089 . E

Minima	E	O - C
242 7987.299(S)	0	-0.011
8275.470(S)	613	-0.005
8357.273(S)	787	+0.003
8366.248(S, 1/4)	806	+0.046
243 4399.609(S, 1/4)	13640.5	+0.050
4479.493(S, 1/2)	13810.5	+0.019
4508.396(S)	13872	+0.011
4537.285(S)	13933.5	-0.010
4540.340(S)	13940	-0.011
4541.296(S)	13942	+0.005
4566.260(S)	13995	+0.054
4573.262(S)	14010	+0.005
8195.312	21715	+0.019
8228.219	21785	+0.020
8474.553	22309	+0.027
8494.492(1/2)	22351.5	-0.012
8498.500	22360	-0.005
8502.482(1/2)	22368.5	-0.014
8548.337	22466	+0.008
8555.332(1/4)	22481	-0.049
376	22481	-0.005
8556.334	22483	+0.013
8560.331(1/2)	22491.5	+0.014
8581.249	22536	+0.009
8589.251(3/4)	22553	+0.024
8605.209	22587	-0.002
8885.406(3/4)	23183	+0.023
8933.308	23285	-0.024
8934.302(1/2)	23287	+0.029
8966.214(3/4)	23355	-0.024
9209.525(1/2)	23872.5	+0.015
9230.455(3/4)	23917	+0.026
9287.307	24038	-0.002
9291.299(1/2)	24046.5	-0.006

Ampl. $0^m.40$, with a deep (1/2) secondary minimum

S 5018 - KJW 2442 - BV 753, 1900: 15^h 39^m 37^s -66° 25' 8", Max = 11.^m7

Min = JD 242 8664.350 + 0^d 614 606 . E

Minima	E	O - C
242 8664.363(S)	0	+0.013
8712.262(S)	78	-0.037
8752.251(S)	143	+0.013
8933.533(S)	438	-0.014
243 4534.428(S)	9551	-0.014
4566.391(S)	9603	-0.011
8471.582	15957	-0.020
8500.485	16004	-0.003
8521.395	16038	+0.010
8553.329	16090	-0.015
.374(3/4)	16090	+0.030
8577.290	16129	-0.024
8582.245	16137	+0.014
8585.246(1/3)	16142	-0.058
.291	16142	-0.013
8606.225	16176	+0.025
8822.516(3/4)	16528	-0.025
8863.409	16627	+0.022
8887.403(1/2)	16633.5	+0.021
8915.349	16679	+0.002
.392(1/3)	16679	+0.045
8935.314(3/4)	16711.5	-0.007
8939.304	16718	-0.012
9232.462(3/4)	17195	-0.021
9261.400	17242	+0.031
9269.376	17255	+0.017
9289.310(1/2)	17287.5	-0.024
.354(1/2)	17287.5	+0.020
9293.297(3/4)	17294	-0.032
.343	17294	+0.014
9314.260(3/4)	17328	+0.035

Ampl. 0.^m35, with a very deep (3/4) secondary minimum, EA

S 5120 = K3W5295 = CAP -70° 2812(7^m.4) = HD 199 005 (F2) = BV 482

Min = JD 242 8667.600 + 1.^d899 75 . E

Minima	E	O - C
242 8667.571(S)	0	-0.029
8863.310(S)	103	+0.036
243 8258.408(1/2)	5048.5	-0.080
.454(3/4)	5048.5	-0.034
8260.361(1/2)	5049.5	-0.027
.404(3/4)	5049.5	+0.016
8261.360	5050	+0.022
.406(1/2)	5050	+0.068
8282.274	5061	+0.039
8319.238(1/2)	5080.5	+0.042
8560.508(3/4)	5207.5	-0.040
.545(3/4)	5207.5	-0.003
8561.511	5208	+0.013
8580.478	5218	-0.018
8618.444(1/2)	5238	-0.046
8638.397(1/2)	5248.5	-0.041
8640.354(3/4)	5249.5	+0.016
.398(1/2)	5249.5	+0.060
8641.312	5250	+0.024
.357(1/2)	5250	+0.069
9019.281(1/2)	5449	-0.057
.326	5449	-0.012
9020.242(1/2)	5449.5	-0.046
.288(3/4)	5449.5	0.000
.333(1/2)	5449.5	+0.045
9378.326(1/2)	5638	-0.064
.372	5638	-0.018
9379.336(3/4)	5638.5	-0.004
.381(1/2)	5638.5	+0.041
9380.285	5639	-0.005
.331(1/2)	5639	+0.041

Ampl. 0^m.60, with a very deep (3/4) secondary minimum, EA

The variables have been discovered and classified as EA variables by C. HOFFMEISTER (Erg. AN 12, Nr. 1, 1949). The minima S=Sonneberg) were determined by Miss H. GESSNER from Sonneberg sky patrol plates. I am very thankful to Miss GESSNER.

Remeis Observatory Bamberg
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