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 Astronomisches Institut der Universität Erlangen-Nürnberg  
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CONTROL OF ELEMENTS OF SONNEBERG VARIABLES (VIII)

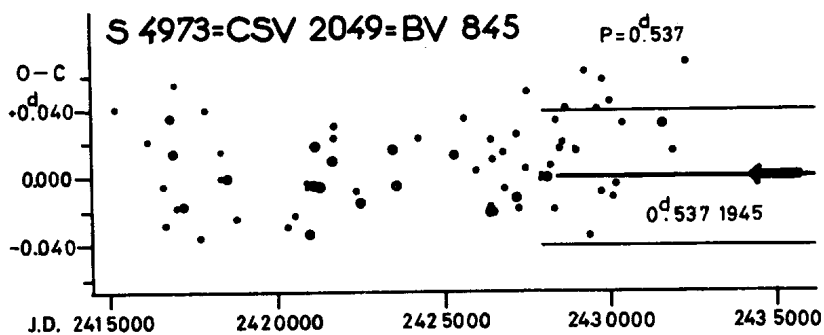
The Harvard plate material (sky patrol) enables a control of the constancy of the elements from the early years of the century on. In the graphical representation only Harvard minima are used. Minima from SONNEBERG and BAMBERG are indicated by the middle line to  $O - C = 0.000$ . The accuracy of the observations is shown by the parallel lines.

S 4973 = CVS 2049 = CoD  $-44^\circ$  8789 (9<sup>m</sup>,7) = HD 118 695 (A5) =  
 = BV 845

The elements published in IBVS 256 (1968) are to be corrected due to an error in the (O-C)-values. For E = 0 read O-C = -0.046.

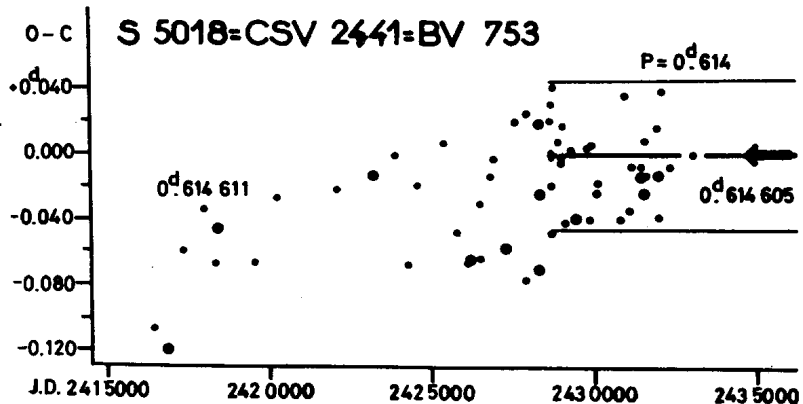
$$\text{Min} = \text{JD } 242\,7987,305 + 0^d,537\,1945 \cdot E$$

Minima	Minima	Minima	Minima
243...	242...	6834,479	0994,659
3822,319	9745,534	6489,348	0984,723
3453,287++	9727,337	6479,422	0626,662
3439,321	9651,575	6469,442	0343,535
2738,224	9443,336	6436,404++	241...
2728,284(½)	9384,342	6067,375	8855,511
2348,317	9041,297	5685,461	8497,226+
2319,260	8716,319	5386,223+	8473,589
1918,508	8668,488	4357,505++	8422,573
1676,224	8575,550	3536,642++	7977,796
1669,223++	8363,323	3516,789++	7971,835
1655,301++	8341,283	2516,500++	7730,614
1619,316	8213,471	2401,817	7256,827++
1575,213	8199,497++	1758,576	7075,521(½)
0849,492	7590,369	1751,574	7035,576
0418,412(½)	7524,517	1723,626++	6958,717++
0112,433+	7236,332	1362,617+	6936,713+
0088,536(½)	7221,247	1093,507++	6668,589
0055,514	7181,502	1023,647+	6625,636
0004,515	6866,345	1022,591++	6278,637
			5222,529



S 5018 = CSV 2442 = BV 753 1900:  $15^h 39^m 37^s -66^\circ 25'.8$   
 Min = JD 242 8664,350 +  $0^d.614 605.E$  (IBVS 184. 1967)

Minima	Minima	Minima	Minima
243...	0900,319	8289,417++	3940,803
3033,577	0158,437	8276,553+	3197,733+
2359,348	0157,511	7978,494 ( $\frac{1}{2}$ )	3172,693
2058,238	242...	7903,494	2100,654
2052,322 ( $\frac{1}{2}$ )	9897,252	7891,417	0688,623 ( $\frac{1}{2}$ )
2000,413++	9716,558	7545,481	0338,576
1992,543	9421,502+	7295,259+	241...
1680,225	9322,594	7188,418 ( $\frac{1}{2}$ )	9589,639
1647,322	9130,238	6938,228 ( $\frac{1}{2}$ )	8506,578
1627,337++	9104,364	6812,531	8414,812
1620,284	9048,477	6543,285	8368,440++
1614,409 ( $\frac{1}{2}$ )	9016,514	6490,463	8069,754
1494,593++	8968,586	6181,283+	7992,833 ( $\frac{1}{2}$ )
1251,474 ( $\frac{1}{2}$ )	8771,242	6125,352	7405,647
1241,382+	8699,422	5789,276	6951,704+
1167,602	8691,412	5446,285 ( $\frac{1}{2}$ )	6589,713
1143,578 ( $\frac{1}{2}$ )	8640,411	4670,627	6264,669 ( $\frac{1}{2}$ )
0859,373	8337,310+	4327,629	5885,629 ( $\frac{1}{2}$ )



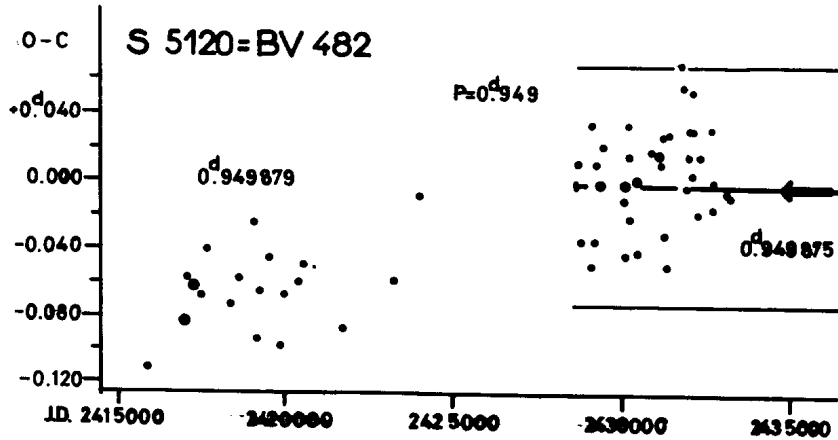
S 5120 = CSV 5295 = CAP -70° 2812 (7<sup>m</sup>.4) = HD 199 055 (F<sub>2</sub>)  
 = BV 482

The true period is the half of that published in IBVS 184 (1967):

$$\text{Min} = \text{JD } 242\,8667,600 + 0^d,949\,875 \cdot E$$

The Harvard plate material reveals the secondary minimum.

Minima	Minima	Minima	Minima
243...	1705,371	242...	1814,666 (1/4)
3203,248	1344,300	9756,622 (1/2)	0664,853
3180,452	1323,481	9739,506 (1/2)	0425,575
2765,348	1282,577	,505 (1/2)	0043,618
2706,472	1265,537	9611,283 (1/2)	241...
2648,560	1228,476	9466,477	9942,900
2326,536	1150,592++	9428,451++	9575,817 (1/2)
2305,604	0994,340	9221,343	9567,753
2084,307	0526,464	9204,291	9305,598
2065,358	0448,617++	9165,370	9224,800
2006,919	0263,370	9127,291	9205,770
1978,347 (1/2)	0234,436	8861,339	8604,566
1950,385	0128,499	9785,397	8486,767
1947,552	,466	7987,331	7727,839
1908,572	0109,545	4051,673	7562,542
1801,296	0070,565++	3341,593	7328,880++
1772,260 (1/2)		1862,609	7067,670
			7006,852+
			5927,767



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