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Veröffentlichungen der Reineis-Sternwarte Bamberg
 Astronomisches Institut der Universität Erlangen-Nürnberg
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ELEMENTS OF SONNEBERG VARIABLES (VII)

FR Lup = S 7618 = CAP -53° 6056 (9^m6) = BV 743
 Min = JD 242 8744,350 + 1^d.264 033 . E

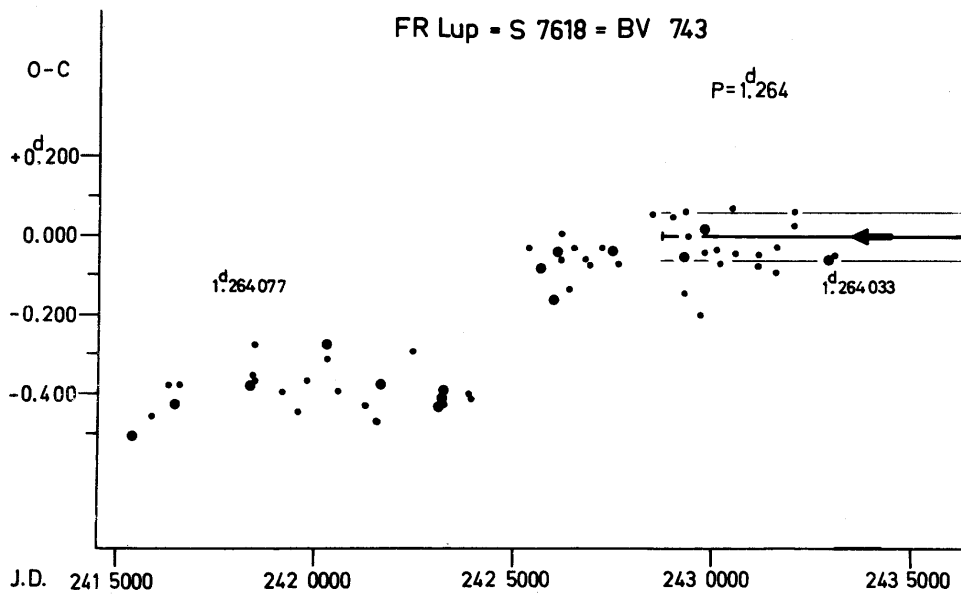
M i n i m a	E	O - C
242 8722,245 (S)	- 17,5	+ 0,016
8744,295 (S)	0	- 0,055
243 4480,622 (S)	+ 4538	+ 0,090
4485,576 (S)	4542	- 0,012
4509,570 (S)	4561	- 0,034
8475,501	7698,5	- 0,007
,553	7698,5	+ 0,045
8501,438	7719	+ 0,017
,482	7719	+ 0,061
8553,285 (1/2)	7760	+ 0,039
,329 (1/2)	7760	+ 0,083
8584,246	7784,5	+ 0,031
8884,407 ++	8022	- 0,016
8915,300 (1/2)	8046,5	- 0,092
,349	8046,5	- 0,043
9210,488	8280	- 0,055
9236,458 +	8300,5	+ 0,002
9293,253 (1/2)	8345,5	- 0,084
,297 +	8345,5	- 0,040
9314,216	8362	+ 0,022
,260	8362	+ 0,066
9614,362	8599,5	- 0,040
,408 +	8599,5	+ 0,006

Ampl. 0^m.65, with deep secondary minimum similar to primary minimum, EW or EB

C. HOFFMEISTER, AN 287, 59, 1963: 11^m.5 - 12^m., EA

(S) = Sonneberg, H. GESSNER

FR Lup = S 7618 = BV 743



By the help of the Harvard plate material, which was in a friendly manner at our disposal, we were able to control the period back to 1901. Calculations were made with period, which was derived from the very close lying minima up to 1966. The last figures (5th and 6th place after comma) in the period were obtained using the Sonneberg minima from the years 1937 and 1953. This is about half of the available photographic material. In the graphical representation you find the span of inaccuracy by an estimate of the minima, indicated with +5 % of the period by two thin lines, parallel to the zero direction. Minima found in Bamberg and Sonneberg are not entered, but only the Harvard minima (H.Bauernfeind).

M i n i m a	E	O - C
243 3055,284	+ 3410,5	- 0,050
2977,534 ++	3349	- 0,063
2713,231 (1/2)	3140	- 0,183
2035,319	2603,5	+ 0,059
,287	2603,5	+ 0,027
1921,422 (1/2)	2513,5	- 0,075
1636,432	2288	- 0,026
,366	2288	- 0,092
1608,464 (1/2)	2266	- 0,185
1134,559	1891	- 0,077
,591	1891	- 0,045
0575,235	1448,5	- 0,067
0518,490	1403,5	+ 0,070
0197,289	1149,5	- 0,067
0088,616	1063,5	- 0,033
242 9871,255 ++	+ 891,5	+ 0,020
9783,344	822	- 0,041
9731,362	781	- 0,198
9679,506 (1/2)	740	- 0,228
9436,409	547,5	+ 0,001
9348,618	478	+ 0,060
9322,594 ++	457,5	- 0,051
,497	457,5	- 0,148
9079,367	+ 265	+ 0,048
8565,544	- 141,5	+ 0,055
8276,553 (1/2)	370	- 0,105
7650,260	865,5	- 0,069
7593,411 ++	910,5	- 0,037
7267,295	1168,5	- 0,032
6915,223	1447	- 0,071
6806,529	1533	- 0,058
6563,233	1725,5	- 0,028
6454,423	1811,5	- 0,131

M i n i m a	E	O - C
242 6211,233 ++	2004	+ 0,005
6159,338	2045	- 0,064
6102,483 +	2090	- 0,038
6097,306 ++	2094	- 0,159
5745,348 ++	2372,5	- 0,084
5419,280 ++	2630,5	- 0,031
3964,634	3781,5	- 0,407
3959,490	3785	- 0,395
3255,531 ++	4342	- 0,388
3234,650	4358,5	- 0,412
3229,597 ++	4362,5	- 0,409
3172,693 ++	4407,5	- 0,431
2546,502	4903	- 0,294
1790,536 +	5501	- 0,368
1751,574 (1/2)	5532	- 0,145
1686,789	5583	- 0,465
1360,708	5841	- 0,425
0651,621 ++	6402	- 0,390
0594,846 (1/2)	6447	- 0,283
0392,528 (1/2)	6607	- 0,356
0349,601	6641	- 0,306
0325,624 ++	6660	- 0,266
0304,600 (1/2)	6676,5	- 0,433
241 9895,755	7000	- 0,364
9605,580	7229,5	- 0,443
9212,507	7540,5	- 0,392
8508,572	8097,5	- 0,271
8456,663	8138,5	- 0,354
8431,373	8158,5	- 0,364
8404,823 +	8179,5	- 0,369
8394,707 (1/2)	8187,5	- 0,373
7405,647 ++	8970	- 0,327
7371,699 (1/2)	8997	- 0,146
7069,577 (1/2)	9236	- 0,164
6608,627	9600,5	- 0,374
6587,725 ++	9617	- 0,420
6323,588	9826	- 0,374
5945,591 (1/2)	10125	- 0,425
5940,506	10129	- 0,454
5847,715 (1/2)	10202,5	- 0,338
5600,579 (1/2)	10397,5	- 0,356
5474,664 +	-10497,5	- 0,500

Remeis-Observatory
Bamberg, 1968 April 18

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