

COMMISSION 27 OF THE I.A.U.  
 INFORMATION BULLETIN ON VARIABLE STARS  
 NUMBER 107

Konkoly Observatory  
 Budapest  
 7 October 1965

**BRIGHT SOUTHERN BV - STARS**

On sky patrol plates of Bamberg Southern-Station 73 further stars were found whose variability seems to be real as can be seen from the material available till now.

BV 637 = CoD -48°338 (8 <sup>m</sup> .8)	= HD 8 093 (A2)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 638 = BD -17°366 (8.7)	= HD 12 293 (A)	A <sub>pg</sub> = 0 <sup>m</sup> .3
= K3 <sup>π</sup> 186		
BV 639 = BD -16°696 (8 <sup>m</sup> .5)	= HD 23 517 (F0)	A <sub>pg</sub> = 0 <sup>m</sup> .5
BV 640 = CoD -41°1120 (8 <sup>m</sup> .5)	= HD 23 519 (F0)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 641 = CoD -45°1704 (9 <sup>m</sup> .6)		
= K3 <sup>π</sup> 450 = S 4841		
BV 642 = CoD -25°2539 (7 <sup>m</sup> .5)	= HD 37 212 (Na)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 643 = CoD -23°2977 (9 <sup>m</sup> .7)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 644 = BD -22°1215 (9 <sup>m</sup> .0)	= HD 38 427 (F5)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 645 = CoD -61°1313 (9 <sup>m</sup> .5)	= HD 43 769 (G0)	A <sub>pg</sub> = 0 <sup>m</sup> .3
Max = 243 8407.750 + 18 <sup>d</sup> .75 . E		
Cep	Light-curve Fig. 1	
BV 646 = CoD -54°1411 (9 <sup>m</sup> .6)	= HD 44 863 (A2)	A <sub>pg</sub> = 0 <sup>m</sup> .4
BV 647 = CoD -41°2466 (9 <sup>m</sup> .1)		A <sub>pg</sub> = 0 <sup>m</sup> .5
BV 648 = CoD -66°407 (7 <sup>m</sup> .8)	= HD 46 975 (Mb)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 649 = CoD -45°2632 (9 <sup>m</sup> .8)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 650 = CoD -52°1638 (9 <sup>m</sup> .1)	= HD 48 505 (Mc)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 651 = BD -11°1684 (8 <sup>m</sup> .7)	= HD 50 875 (F0)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 652 = CoD -24°4567 (3 <sup>m</sup> .9)	= HD 50 877 (K2p)	A <sub>pg</sub> = 0 <sup>m</sup> .3
= K3 <sup>π</sup> 100781 (4 <sup>m</sup> .1)		
BV 653 = BD -10°1758 (8 <sup>m</sup> .3)	= HD 51 082 (A0)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 654 = CoD -46°2777 (9 <sup>m</sup> .5)	= HD 51 797 (G5)	A <sub>pg</sub> = 0 <sup>m</sup> .4
BV 655 = BD -11°1747 (7 <sup>m</sup> .2)	= HD 52 721 (B3)	A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 656 = BD -11°1755 (8 <sup>m</sup> .7)	= HD 52 942 (B5)	A <sub>pg</sub> = 0 <sup>m</sup> .3

BV 657 = CoD	-27°3652	(10 <sup>m</sup> )			A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 658 = BD	-19°1717	(9 <sup>m</sup> .3)			A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 659 = CoD	-59°1542	(9 <sup>m</sup> .6)	= HD 56 785 (Go)		A <sub>pg</sub> = 0 <sup>m</sup> .5
BV 660 = 1900:	7 <sup>h</sup> 14 <sup>m</sup> 37 <sup>s</sup>	-56°11'6"	Ident. Chart No.1		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 661 = CoD	-34°3517	(8 <sup>m</sup> .0)	= HD 57 301 (B9)		A <sub>pg</sub> = 0 <sup>m</sup> .4
BV 662 = CoD	-51°2485	(8 <sup>m</sup> .3)	= HD 58 872 (P8)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 663 = CoD	-45°3332	(10.0)			A <sub>pg</sub> = 0 <sup>m</sup> .4
	= K3π	1104 = S	+886		
BV 664 = CoD	-48°3091	(6 <sup>m</sup> .0)	= HD 61 715 (F5p)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 665 = CoD	-36°3785	(8 <sup>m</sup> .0)	= HD 61 829 (B8)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 666 = BD	-20°2137	(9 <sup>m</sup> .8)			A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 667 = 1900:	7 <sup>h</sup> 39 <sup>m</sup> 30 <sup>s</sup>	-53°13'5"	Ident. Chart No.2		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 668 = BD	-4°2087	(9 <sup>m</sup> .5)	= HD 63 141 (Ao)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 669 = CoD	-48°3193	(9 <sup>m</sup> .4)	= HD 63 562 (Ao)		A <sub>pg</sub> = 0 <sup>m</sup> .7
	Min =	243 8354.540	+ 3 <sup>d</sup> .667 71 . E		
	EA		Light-curve Fig.2		
BV 670 = CoD	-30°5153	(9 <sup>m</sup> .2)			A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 671 = 1900:	7 <sup>h</sup> 48 <sup>m</sup> 0 <sup>s</sup>	-17°8'0"	Ident. Chart No.3		A <sub>pg</sub> = 0 <sup>m</sup> .3
	= K3π	1165 = S	4083		
BV 672 = CoD	-32°4556	(9 <sup>m</sup> .7)			A <sub>pg</sub> = 0 <sup>m</sup> .6
BV 673 = CoD	-28°5231	(9 <sup>m</sup> .4)			A <sub>pg</sub> = 0 <sup>m</sup> .7
	Max =	243 8376.500	+ 14 <sup>d</sup> .135 . E		
	Cep .		Light-curve Fig.3		
BV 674 = CoD	-61°1805	(7 <sup>m</sup> .5)	= HD 66 260 (Fo)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 675 = CoD	-30°5470	(7 <sup>m</sup> .8)	= HD 66 381 (A2)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 676 = BD	-17°2298	(9 <sup>m</sup> .1)	= HD 66 475 (A2)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 677 = BD	-16°2312	(9 <sup>m</sup> .5)			A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 678 = CoD	-30°5709	(9 <sup>m</sup> .3)	= HD 67 839 (Ao)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 679 = CoD	-48°3505	(9 <sup>m</sup> .5)	= HD 68 011 (Mb)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 680 = CoD	-35°4284	(9 <sup>m</sup> .3)	= HD 68 296 (B9)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 681 = 1900:	8 <sup>h</sup> 9 <sup>m</sup> 17 <sup>s</sup>	-18°45'3"	Ident. Chart No.4		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 682 = CoD	-26°5815	(9 <sup>m</sup> .1)	= HD 69 797 (A5)		A <sub>pg</sub> = 0 <sup>m</sup> .4
BV 683 = BD	-22°2231	(8 <sup>m</sup> .0)	= HD 70 258 (Ao)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 684 = 1900:	8 <sup>h</sup> 16 <sup>m</sup> 59 <sup>s</sup>	-35°24'10"	Ident. Chart No.5		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 685 = K3π	-56°2201	(7 <sup>m</sup> .7)	= HD 70 605 (B9)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 686 = CoD	-54°2269	(8 <sup>m</sup> .1)	= HD 73 169 (B9)		A <sub>pg</sub> = 0 <sup>m</sup> .5
BV 687 = Cap	-64°938	(9 <sup>m</sup> .6)			A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 688 = Cap	-57°1705	(10 <sup>m</sup> .1)			A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 689 = 1900:	8 <sup>h</sup> 49 <sup>m</sup> 53 <sup>s</sup>	-65°56'6"	Ident. Chart No.6		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 690 = BD	-22°2440	(7 <sup>m</sup> .2)	= HD 76 296 (Go)		A <sub>pg</sub> = 0 <sup>m</sup> .3
BV 691 = CoD	-46°4882	(7 <sup>m</sup> .3)	= HD 78 005 (B3)		A <sub>pg</sub> = 0 <sup>m</sup> .2
BV 692 = CoD	-56°2636	(10 <sup>m</sup> .5)			A <sub>pg</sub> = 0 <sup>m</sup> .2

BV 693 = CoD  $-81^{\circ}301$  ( $8^m.9$ ) = HD 81 243 (A0)  $A_{pg} = 0^m.3$   
BV 694 = CoD  $-55^{\circ}2785$  ( $9^m.5$ )  $A_{pg} = 1^m.0$   
= K3 $\pi$  1469 = S 4915  
Min =  $243\ 8442.420 + 2^d.4471 . E$

EA Light-curve Fig.4

BV 695 = 1900:  $9^h40^m45^s$   $-62^{\circ}9'6$  Ident.chart No.7  $A_{pg} = 0^m.5$   
BV 696 = CoD  $-43^{\circ}5607$  ( $10^m$ )  $A_{pg} = 0^m.6$   
BV 697 = CoD  $-66^{\circ}789$  ( $9^m.5$ )  $A_{pg} = 0^m.3$   
BV 698 = BD  $-19^{\circ}2867$  ( $9^m.1$ )  $A_{pg} = 0^m.3$   
= 101089  
BV 699 = CoD  $-57^{\circ}2916$  ( $7^m.7$ ) = HD 86 441 (B9)  $A_{pg} = 0^m.3$   
BV 700 = CoD  $-45^{\circ}5845$  ( $10^m$ )  $A_{pg} = 0^m.3$   
BV 701 = BD  $-18^{\circ}2927$  ( $8^m.0$ ) = HD 90 242 (F5)  $A_{pg} = 0^m.5$   
Min =  $243\ 8471.530 + 3^d.665 . E$

EA Light-curve Fig.5

BV 702 = CoD  $-57^{\circ}3226$  ( $10\ 3/4^m$ )  $A_{pg} = 0^m.4$   
BV 703 = Cap  $-41^{\circ}5243$  ( $10^m.5$ )  $A_{pg} = 0^m.2$   
BV 704 = CoD  $-77^{\circ}494$  ( $9^m.8$ )  $A_{pg} = 0^m.4$   
= K3 $\pi$  1754 = S 4949  
BV 705 = CoD  $-72^{\circ}730$  ( $9^m.8$ ) = HD 101 916 (A2)  $A_{pg} = 0^m.3$   
BV 706 = CoD  $-45^{\circ}7307$  ( $8^m.8$ ) = HD 102 682 (F8)  $A_{pg} = 0^m.3$   
BV 707 = CoD  $-46^{\circ}7908$  ( $8^m.4$ ) = HD 108 015 (F8)  $A_{pg} = 0^m.3$   
BV 708 = CoD  $-59^{\circ}4353$  ( $9^m.4$ )  $A_{pg} = 0^m.2$   
BV 709 = BD  $-10^{\circ}3625$  ( $9^m.0$ ) = HD 114 543 (F5)  $A_{pg} = 0^m.2$

Bamberg, Remis Observatory  
25 September 1965

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$\Delta V_{\text{star}} = \cos \delta \sin \theta \sin \alpha \sin \delta \sin \theta \sin \alpha = \text{HD } 43769 \text{ (Go)} \quad (\text{Fig. 1})$

Max = JD 245 8407.750 + 18<sup>d</sup>.75 . E, Cepheid, Ampl. 0<sup>m</sup>.34

Comparison-stars:

Cap -61<sup>o</sup>0619                    9<sup>m</sup>.60 estimated

Cap -61<sup>o</sup>0612                    10.00 estimated

Individual maxima (brighter than 9<sup>m</sup>.65)

Maxima	E	O - C
2-3 8406.413	0	-1.337
8407.-15	0	-0.335
8408.370	0	+0.619
8707.572	16	-0.178
8708.528	16	+0.778
.57+	16	+0.824
8709.528	16	-1.778
8726.495	17	-0.005
8785.337	20	+2.587
8820.267	22	+0.017
8822.266	22	+2.016

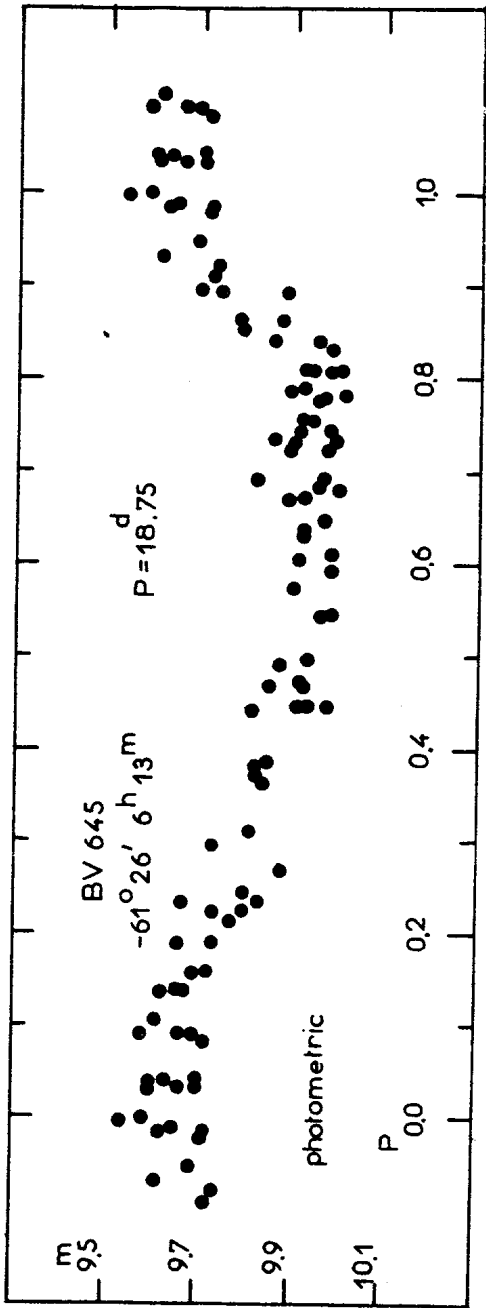


Fig.1

EV 359 = CoD 243 2123 (2<sup>m</sup>+) = HD 83 562 (A<sub>0</sub>) (Fig.2)

Min = JD 243 8354 + 5<sup>d</sup>.037 71 . E, EA, Ampl. 0.<sup>m</sup>68

Comparison-stars:

Cap -48°1311      9<sup>m</sup>.30  
Cap -48°1288      10.10

Magnitudes of comparison-stars have been derived by photometric connexion to stars from the Harvard catalogue.

Individual minima (fainter than 9<sup>m</sup>.70)

Minima	E	O - C
243 8354.574	0	+0.034
8435.359	22	+0.128
8490.227	37	+0.018
8739.551	105	-0.099
8798.367	121	+0.034
8820.312	127	-0.026
8842.253	133	-0.092

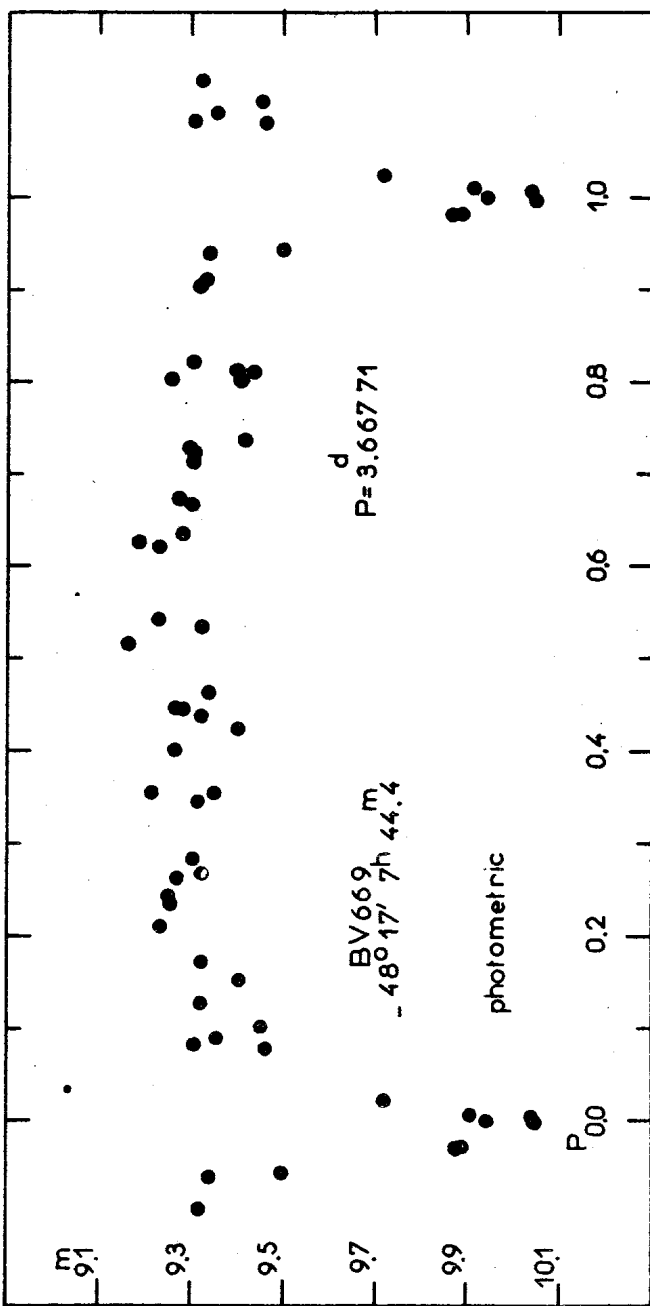


Fig.2

BV 073 = CoD -28°5231 (9.4) = Cap -28°2652 (9.7); (Fig. 3)

Max = JD 243 8376.500 + 14<sup>d</sup>.135 . E, Cepheid, Ampl. 0<sup>m</sup>.68

Comparison-stars:

Cap -29°2215 9<sup>m</sup>.20  
Cap -28°2660 9.70 (Values from Cape catalogue)

Individual maxima (brighter than 9<sup>m</sup>.45)

Maxima	E	O - C
243 8461.296	6	-0.016
8475.242	7	-0.203
8489.231	8	-0.349
8490.227	8	+0.647
8772.458	28	+0.178
8786.409	29	-0.006
8814.314	31	-0.371
8815.315	31	+0.630

Reduction of light-curve by Rev. Fr. T. Vives SJ, guest astronomer  
(Cartuja Observatory, Spain).



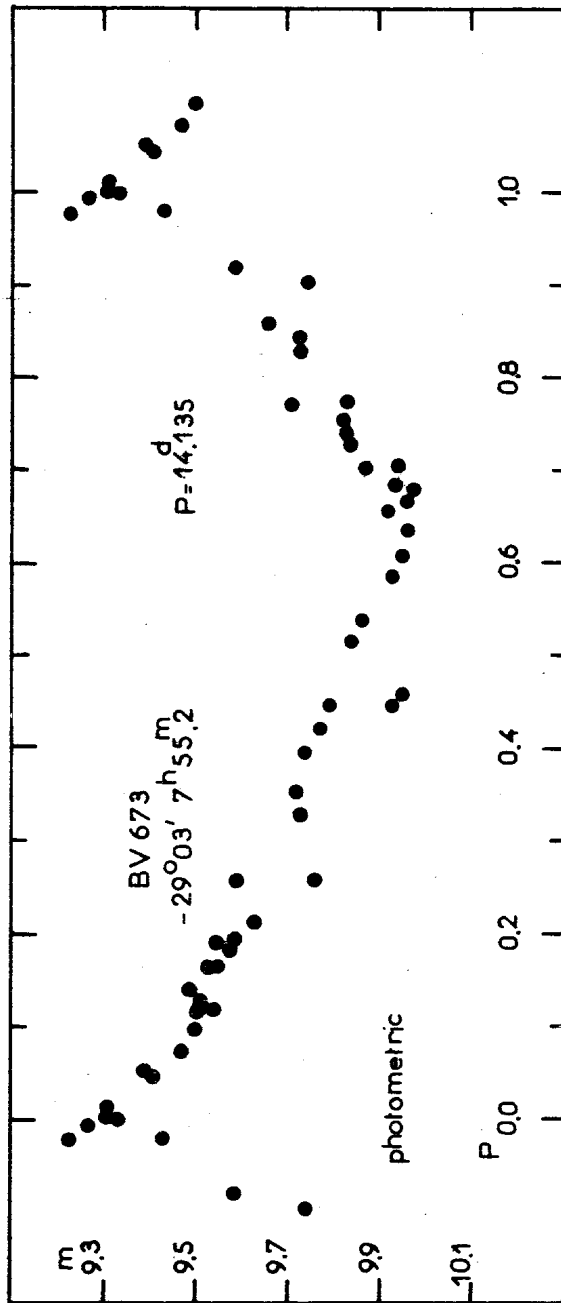


Fig. 3

BV 694 = CoD -55°2785 (9.5) = S 4915 = K3f 1469 (10<sup>m</sup>-11<sup>m</sup>);  
(Fig. 4)

Min = JD 243 8442.420 + 2<sup>d</sup>.4471 . E, EA, Ampl. 0<sup>m</sup>.96

Comparison-stars:

Cap -55°2269            8.90            (Values from Cape catalogue)  
Cap -55°2305            9.80

Individual minima (fainter than 10<sup>m</sup>.00)

Minima	E	O - C
243 8442.397	0	-0.023
.442	0	+0.022
8518.213	31	+0.067
8760.510	130	-0.033
.556	130	+0.013
8814.358	152	-0.021
.402	152	+0.023
8841.292	163	-0.005

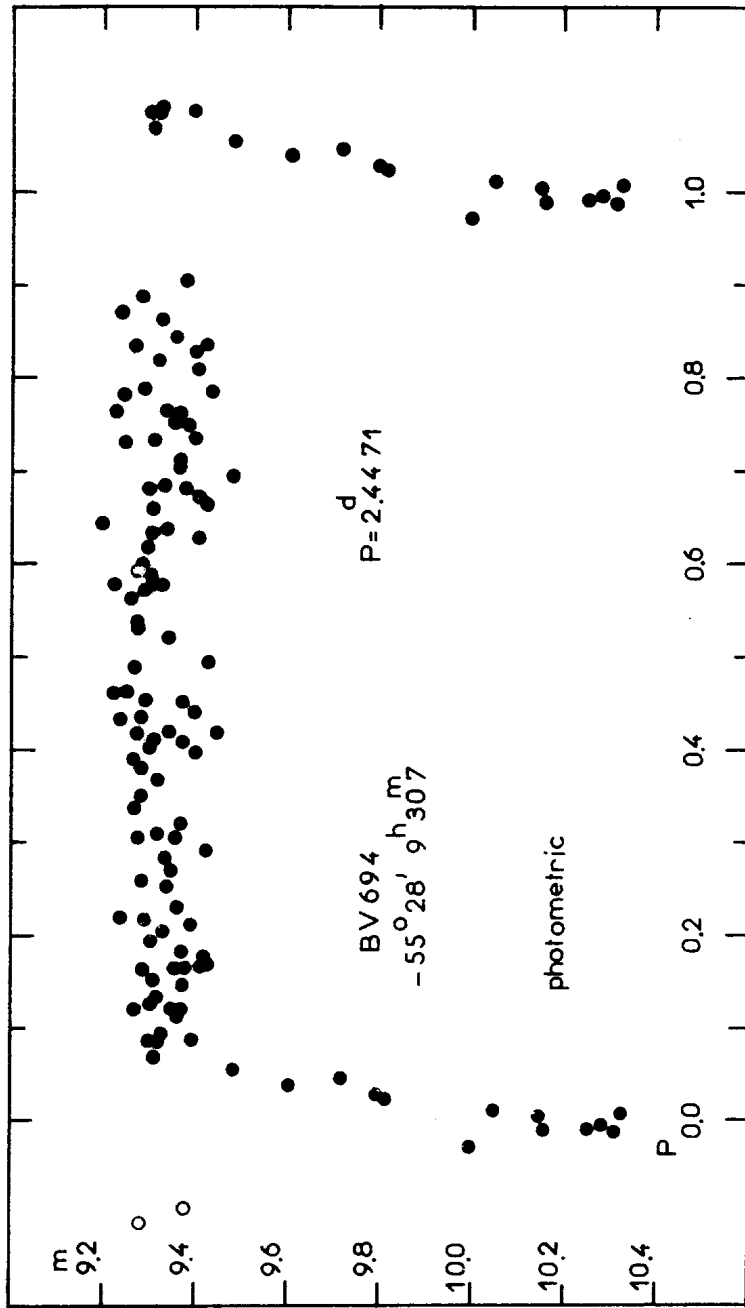


Fig. 4

BY 701 = BD -18°2227 (8<sup>m</sup>0) = HD 90 242 (F<sub>5</sub>) (Fig. 5)

Min = JD 243 8471.530 + 3<sup>d</sup>.665 . E, EA, Ampl. 0<sup>m</sup>.5

Comparison stars:

HD 90 364 (A <sub>0</sub> )	7 <sup>m</sup> 07	
HD 90 323 (G <sub>5</sub> )	8.9	(Data from Harvard Catalogue)
HD 89 981 (K <sub>2</sub> )	9.6	

Individual minima (fainter than 8<sup>m</sup>.90)

Minima	E	O - C
243 8471.360	0	-0.170
8475.331	1	+0.136
8519.209	13	+0.034
8530.204	16	+0.034
8823.392	96	+0.022

Light-curve only estimated, - for a photometric derivation the star is very near to the plate edge.

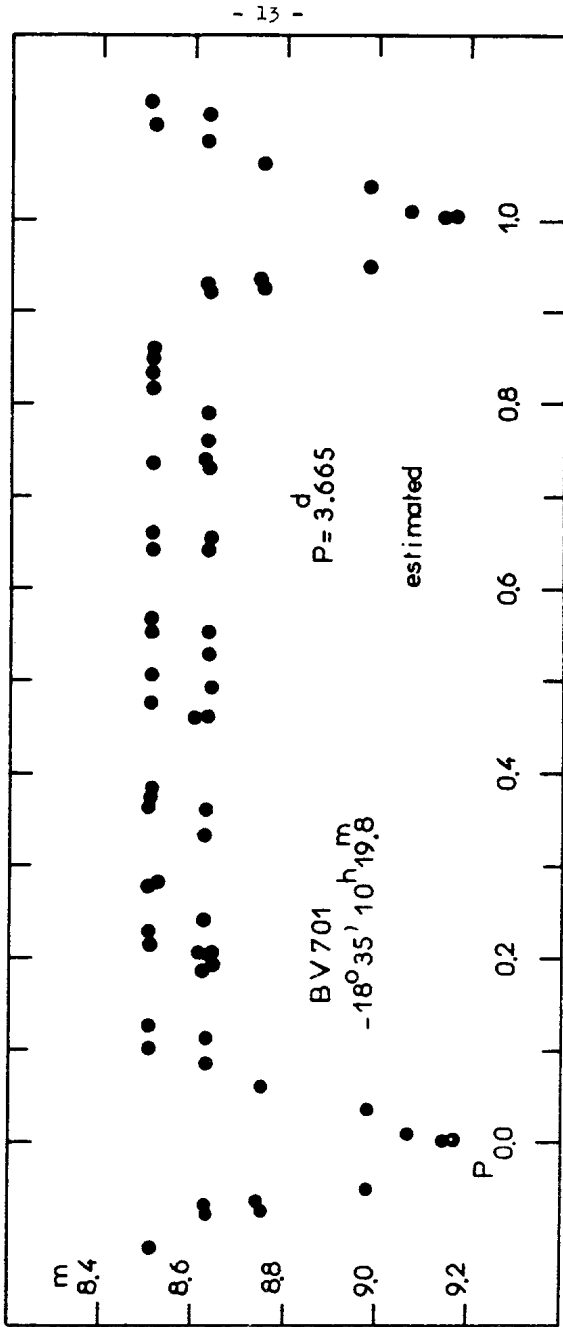
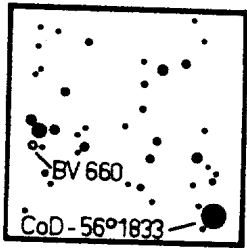
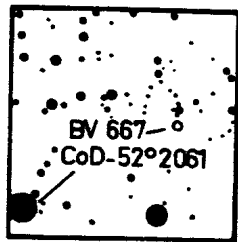


Fig. 5

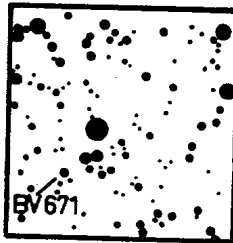
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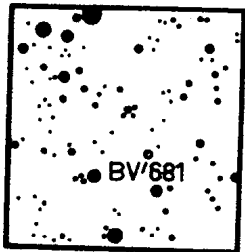
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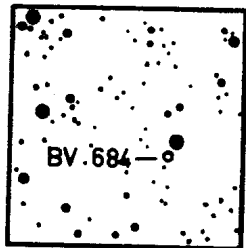
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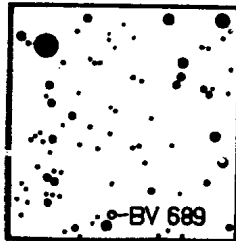
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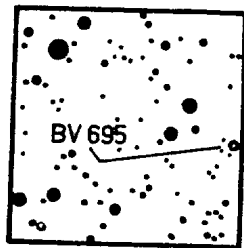


No. 5



No. 6

south



No. 7  
north