

COMMISSION 27 OF THE I.A.U.
INFORMATION BULLETIN ON VARIABLE STARS
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BRIGHT SOUTHERN BV-STARS

On sky patrol plates of Bamberg Southern-Station 48 further stars were found whose variability seems to be real as can be seen from the material available till now.

BV 710 = 1900: $3^h 58^m 56^s.0$ $-20^{\circ} 6' 5''$	Ident. Chart No.1	$A_{pg} = 0^m.3$
BV 711 = CoD $-59^{\circ} 1531$ ($8^m.0$)	= HD 56 146 (B8)	$A_{pg} = 0^m.2$
BV 712 = CoD $-51^{\circ} 3506$ ($9^m.5$)	= HD 78 654 (A0)	$A_{pg} = 0^m.2$
BV 713 = CoD $-57^{\circ} 2511$ ($8^m.4$)	= HD 79 368 (B9)	$A_{pg} = 0^m.3$
BV 714 = CoD $-49^{\circ} 4464$ (10^m)		$A_{pg} = 0^m.3$
BV 715 = HD $-6^{\circ} 2990$ ($9^m.8$)		$A_{pg} = 0^m.6$
Min = $243\ 8504.130 + 13^d.07$. E		
EB	Light-curve Fig.1	
BV 716 = CoD $-37^{\circ} 6099$ ($8^m.0$)	= HD 85 207 (F2)	$A_{pg} = 0^m.5$
Min = $243\ 8441.425 + 8^d.1070$. E		
EB	Light-curve Fig.2	
BV 717 = Cap $-38^{\circ} 3763$ ($10^m.3$)		$A_{pg} = 0^m.4$
BV 718 = CoD $-32^{\circ} 7222$ ($9^m.5$)		$A_{pg} = 1^m.1$
= K3 ^r 1596 = S 4931		
Min = $243\ 8442.050 + 7^d.151$. E		
EB	Light-curve Fig.3	
BV 719 = CoD $-70^{\circ} 728$ ($9^m.2$)	= HD 91 908 (G)	$A_{pg} = 0^m.3$
BV 720 = Cap $-60^{\circ} 2073$ ($9^m.4$)		$A_{pg} = 0^m.3$
= K3 ^r 1629 = S 4936		
BV 721 = CoD $-32^{\circ} 7790$ ($9^m.0$)		$A_{pg} = 0^m.3$
BV 722 = CoD $-26^{\circ} 8342$ ($6^m.4$)	= HD 96 314 (B8)	$A_{pg} = 0^m.3$
Min = $243\ 7483.375 + 16^d.538$. E		
EB	Light-curve Fig.4	
BV 723 = Cap $-55^{\circ} 4211$ ($10^m.0$)		$A_{pg} = 0^m.2$
BV 724 = CoD $-57^{\circ} 3909$ ($8^m.8$)	= HD 99 218 (A0)	$A_{pg} = 0^m.2$
BV 725 = CoD $-40^{\circ} 6738$ ($9^m.0$)	= HD 99 628 (B9)	$A_{pg} = 0^m.8$
Min = $243\ 8493.450 + 6^d.490$. E		
EB	Light-curve Fig.5	
BV 726 = CoD $-65^{\circ} 1151$ ($10^m.2$)		$A_{pg} = 0^m.2$
BV 727 = 1900: $11^h 44^m 37^s.7$ $-62^{\circ} 30' 5''$	Ident. Chart No.2	$A_{pg} = 0^m.3$

BV 728 = 1900: 11 ^h 44 ^m 44 ^s .6	-7°45'1	Ident. Chart No. 3	A _{pg} = 0. ^m 4
BV 729 = CoD -62°580 (9. ^m 3)			A _{pg} = 0. ^m 2
BV 730 = Cap -62°2676 (10. ^m 2)			A _{pg} = 0. ^m 2
BV 731 = CoD -60°4197 (9. ^m 7)		= HD 108 627 (Ao)	A _{pg} = 0. ^m 2
BV 732 = CoD -59°4427 (9. ^m 3)		= HD 111 505 (B5)	A _{pg} = 0. ^m 2
BV 733 = 1900: 12 ^h 52 ^m 45 ^s	-66°11'0	Ident. Chart No. 4	A _{pg} = 0. ^m 3
BV 734 = 1900: 12 ^h 56 ^m 19 ^s .3	-17°07'6	Ident. Chart No. 5	A _{pg} = 1. ^m 0
BV 735 = CoD -36°8539 (8. ^m 5)		= HD 116 447 (G5)	A _{pg} = 0. ^m 2
BV 736 = 1900: 13 ^h 19 ^m 4 ^s	-39°12'6	Ident. Chart No. 6	A _{pg} = 0. ^m 2
BV 737 = CoD -46°8641 (9. ^m 8)			A _{pg} = 0. ^m 3
BV 738 = CoD -36°8875 (9. ^m 7)			A _{pg} = 0. ^m 5
BV 739 = CoD -24°11 322 (7. ^m 4)		= HD 123 767 (F5)	A _{pg} = 0. ^m 2
BV 740 = CoD -61°4383 (9. ^m 3)		= HD 126 344 (B9)	A _{pg} = 0. ^m 9
Min = 243 8520.450 + 3. ^d 025 . E			
EB		Light-curve Fig. 6	
BV 741 = CoD -53°5598 (9. ^m 5)		= HD 127 329 (Ao)	A _{pg} = 0. ^m 4
BV 742 = CoD -73°994 (8. ^m 2)		= HD 128 575 (Go)	A _{pg} = 0. ^m 3
BV 743 = CoD -53°5654 (10 3/4 ^m)			A _{pg} = 0. ^m 6
Min = 243 8475.440 + 5. ^d 1755 . E			
EB		Light-curve Fig. 7	
BV 744 = CoD -57°5671 (7. ^m 8)		= HD 129 125 (Ko)	A _{pg} = 0. ^m 4
BV 745 = CoD -56°5577 (10 1/4 ^m)			A _{pg} = 0. ^m 3
BV 746 = CoD -57°5693 (8. ^m 2)		= HD 129 860 (A2)	A _{pg} = 0. ^m 3
BV 747 = HD - 6°4068 (7. ^m 8)		= HD 129 903 (Go)	A _{pg} = 0. ^m 4
BV 748 = CoD -35°9776 (10 ^m)			A _{pg} = 0. ^m 2
BV 749 = CoD -34°10 176 (9. ^m 0)		= HD 133 674 (Ao)	A _{pg} = 0. ^m 5
BV 750 = CoD -41°9529 (10 ^m)			*)
= K3π 2264 (11. ^m 5 - 13. ^m 5)			
BV 751 = CoD -63°1065 (8. ^m 5)		= HD 134 528 (Mb)	A _{pg} = 0. ^m 3
BV 752 = CoD -52°6613 (8. ^m 4)		= HD 136 739 (G5)	A _{pg} = 0. ^m 3
BV 753 = 1900: 15 ^h 39 ^m 37 ^s	-66°25'8	Ident. Chart No. 7	A _{pg} = 0. ^m 2
BV 754 = CoD -28°12 005 (10 ^m)			*)
BV 755 = CoD -40°10 975 (6. ^m 5)		= HD 152 667 (Bo)	A _{pg} = 0. ^m 2
BV 756 = CoD -38°11 906 (8. ^m 3)		= HD 157 972 (B9)	A _{pg} = 0. ^m 3
BV 757 = CoD -34°12 602 (9. ^m 9)			*)

* = Minimum below plate limit 13.^m0

Bamberg, Reineis-Observatory
2 November 1965

W. STROHMELER
R. KNIGGE H. OTT

BY 715 = BD -06° 2990 (9^m.8); photometric light-curve (Fig. 1).

Min = JD 243 8504.130 + 13^d.07 . E, EB, Ampl. 0^m.74

Comparison stars:

BD -06° 2993 (9^m.4) 10^m.20 estimated

BD -06° 2998 (9.5) 11.00 estimated

Individual minima (fainter than 11^m.20)

Minima	E	O - C
243 8471.360	- 2.5	-0 ^d .115
8817.404	+24	-0.406
8818.402	24	+0.592
8824.400	24.5	+0.055
8844.338	26	+0.388
8883.217	29	+0.057

Tentative derivation of light elements.

BY 716 = CoD -37° 6099 (8^m.0) = HD 85 207 (F2); photometric light-curve (Fig. 2)

Min = JD 243 8441.425 + 8^d.1070 . E, EB, Ampl. 0^m.52

Comparison-stars:

Cape -37° 3796 8^m.24 (values from Cape catalogue)

Cape -37° 3773 9.30

Individual minima (fainter than 9^m.10)

Minima	E	O - C
243 8441.442	0	+0 ^d .017
8502.261	7.5	+0.033
8814.402	46	+0.055
8818.402	46.5	+0.002
8822.400	47	-0.054
8879.219	54	+0.016
8883.217	54.5	-0.039
8887.218	55	-0.092

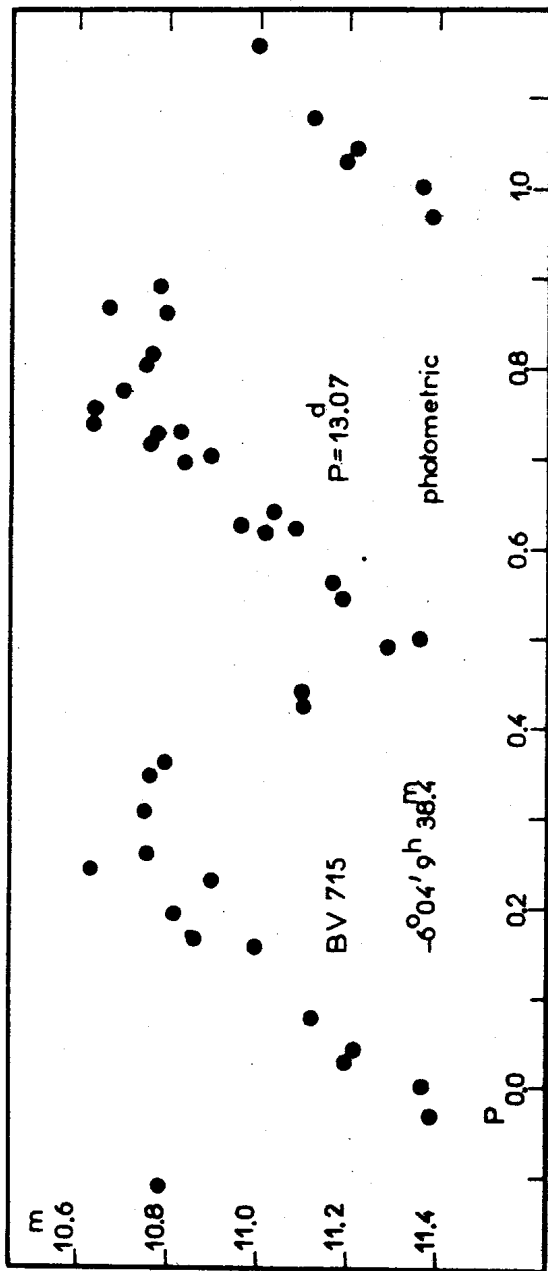


Fig. 1

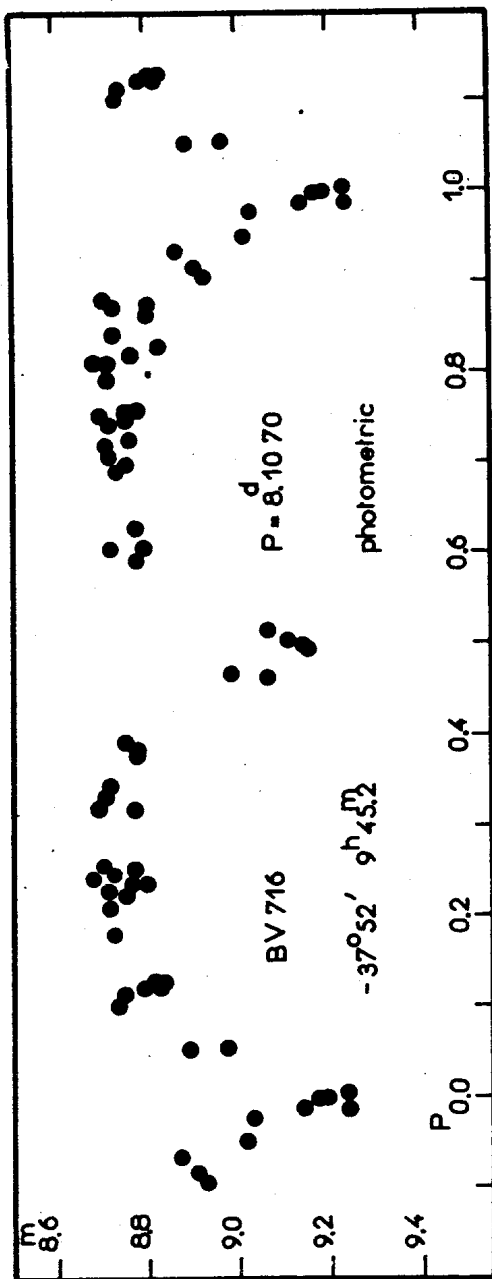


Fig. 2

BV 718 = CoD -32° 7222 (9^m.2) = Cape -32° 2863 (9^m.7) ; S = 4931, K3r 1596.
 photometric light-curve (Fig. 3)

Min = JD 243 8442.050 + 7^d.151 . E, EB, Ampl. 1^m.20

Comparison stars:

Cape -33° 2865 9^m.60 estimated
 Cape -32° 2864 10.30 estimated

Individual minima (fainter than 10^m.60)

Minima	E	O - C
243.8499.265	8	+0 ^d .007
8828.360	54	+0.156
8878.222	61	-0.039

BV 722 -x² Hya = Cape -26° 4440 (5^m.7) = HD 96 314 (B8) ; photometric
 light-curve (Fig. 4)

Min = JD 243 7483.375 + 16^d.538 . E, EB, Ampl. 0^m.32

Comparison stars:

HD 96 819 (A₂) 5^m.50
 HD 96 723 (A0) 6.51 (Cousins' catalogue)

Individual minima (fainter than 5^m.80)

Minima	E	O - C
243 7483.197 *	0	-0 ^d .178
8442.485	58	-0.094
8475.375	60	-0.280
8516.255	62.5	-0.745
8517.256	62.5	+0.256
8525.250	63	-0.019
8814.377 *	80.5	-0.307

* = minima by Cousins (information by letter, October 1965) .

BV 722 is already known to be a variable from "Photoelectric Magnitudes and Colours of Southern Stars" by A.W.J. Cousins and R.H. Stoy. Also D.M. Popper has informed us, that this star had been found many years ago by Lick astronomers to have a variable velocity of large range.

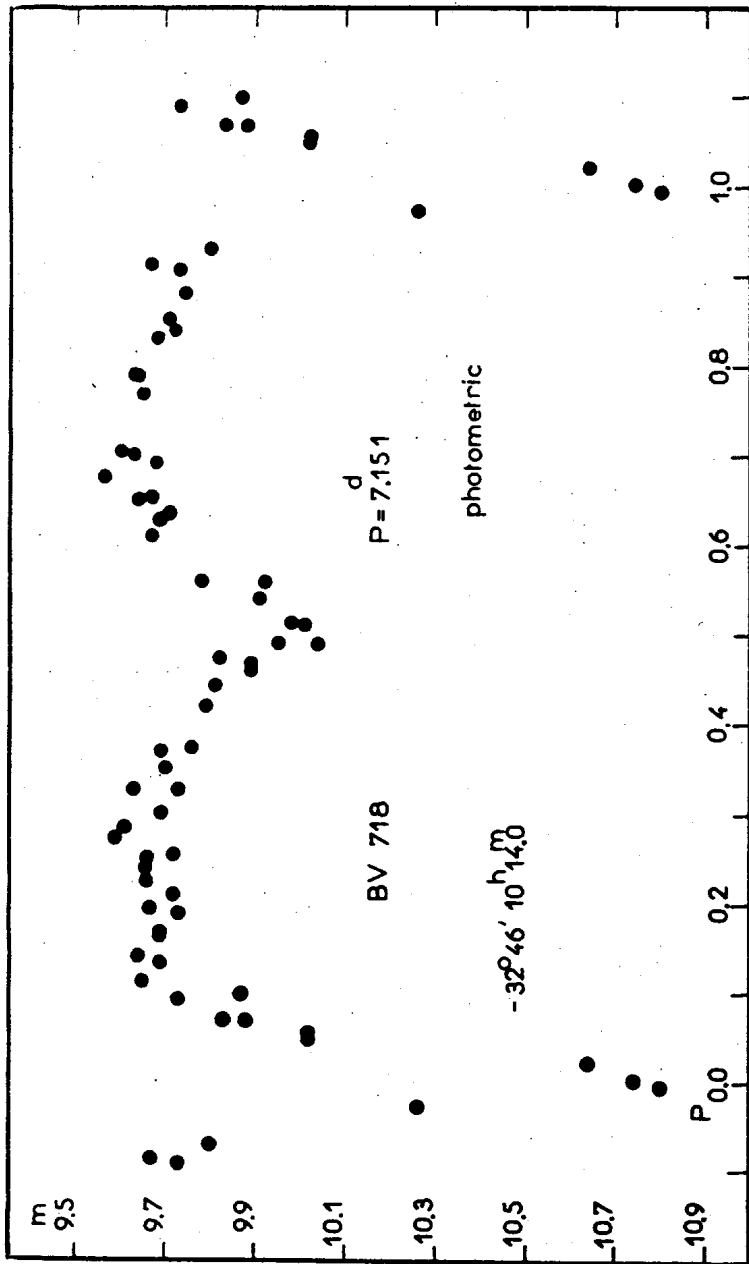


Fig. 3

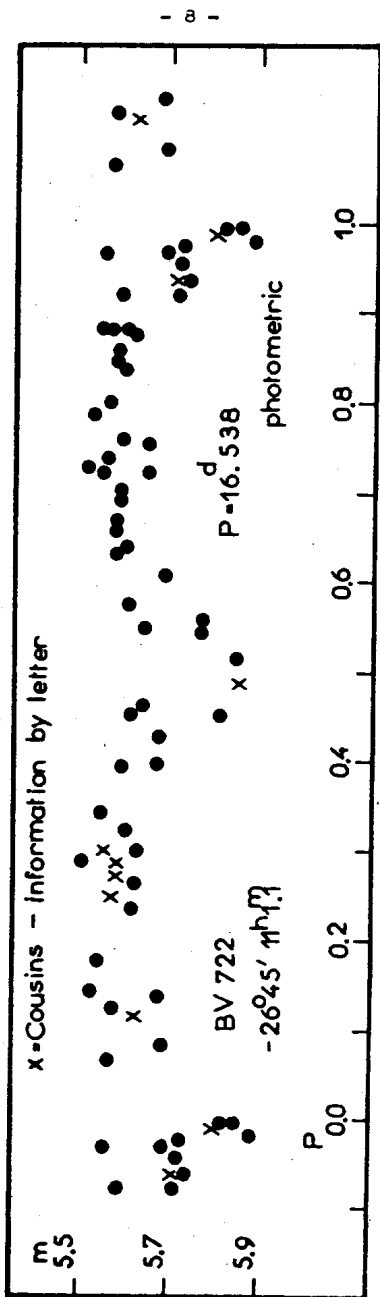


Fig. 4

BY 725 = CoD -40° 6738 (9^m0) = HD 99 628 (B9) ; photometric light-curve (Fig. 5)

Min = JD 243 8493.450 + 6^d.490 . E, EB, Ampl. 0^m.80

Comparison stars:

HD 99 432 (A0) 9^m.50
 HD 99 655 (G5) 10.30 (values of the HD-Catalogue)

Individual minima fainter than 9^m.90

Minima	E	O - C
243 8490.316	-0.5	+0 ^d .111
8493.319	0	-0.131
8503.306	+1.5	+0.121
8516.255	3.5	+0.090
8519.254	4	-0.156
8529.248	5.5	+0.103
8772.548	43	+0.028
8824.444	51	+0.004
8899.213	62.5	+0.138
8902.212	63	-0.108

BY 740 = CoD -61° 4383 (9^m.2) = HD 126 344 (B9) ; photometric light-curve (Fig. 6)

Min = JD 243 8520.450 + 3^d.025 . E, EB, Ampl. 0^m.94

Comparison stars:

HD 126 791 (A0) 8^m.55
 HD 126 843 (B9) 9.25 (mean values from Harvard and Cape catalogues)

Individual minima (fainter than 9.75)

Minima	E	O - C
243 8520.386	0	-0 ^d .064
.431	0	-0.019
8605.208	28	+0.058
8877.402	118	+0.002
.446	118	+0.046
8880.423	119	-0.002
8883.409	120	-0.041

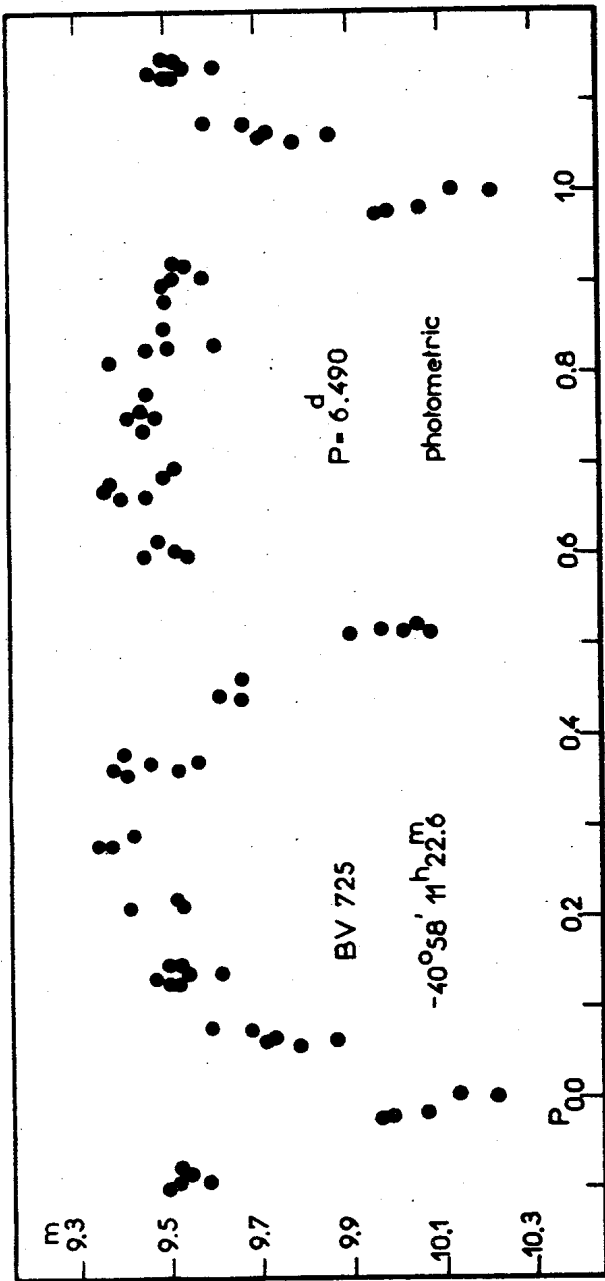


Fig.5

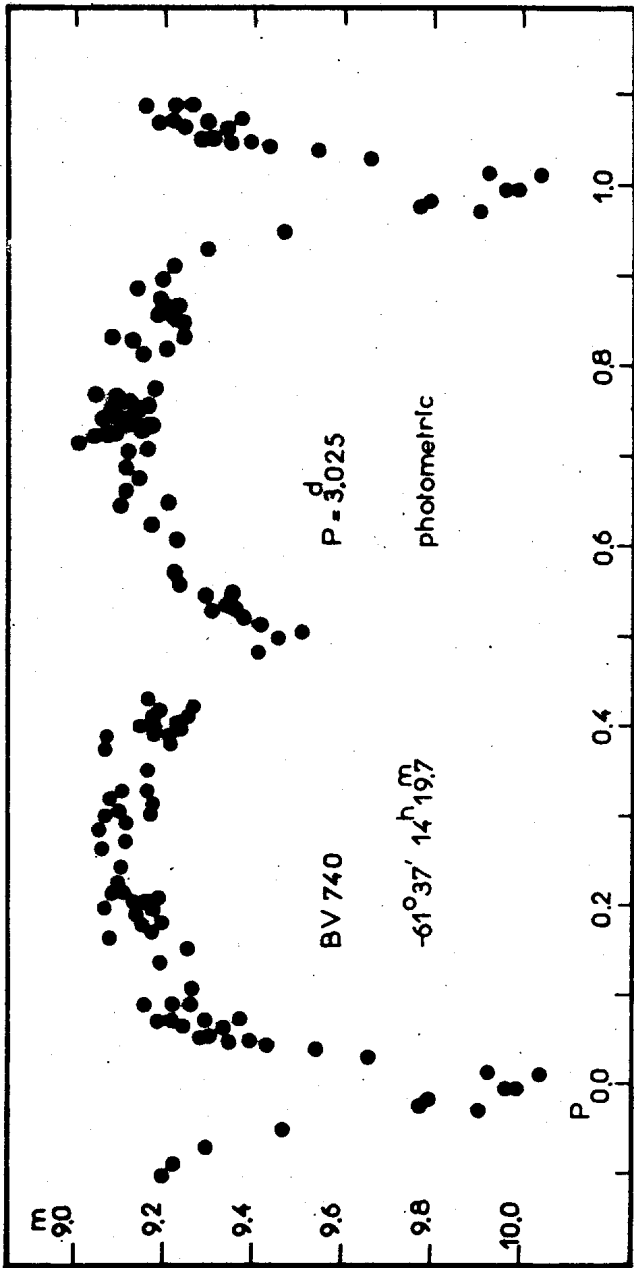


Fig. 6

BV 743 = CoD -53° 5654 (10 3/4^m) = Cape -53° 6056 (9^m.6)
photometric light-curve Fig. 7

Min = JD 243 8475.440 + 5^d.1755 . E, EB, Ampl. 0^m.66

Comparison stars:

Cape -53° 6055 10^m.00 estimated
Cape -53° 6048 10.40 estimated

Individual minima (fainter than 10^m.50)

Minima	E	O - C
243 8475.501	0	+0.061
.553	0	+0.113
8501.438	5	+0.120
8584.246	21	+0.120
8884.407	79	+0.103
8915.302	85	-0.056
.349	85	-0.009

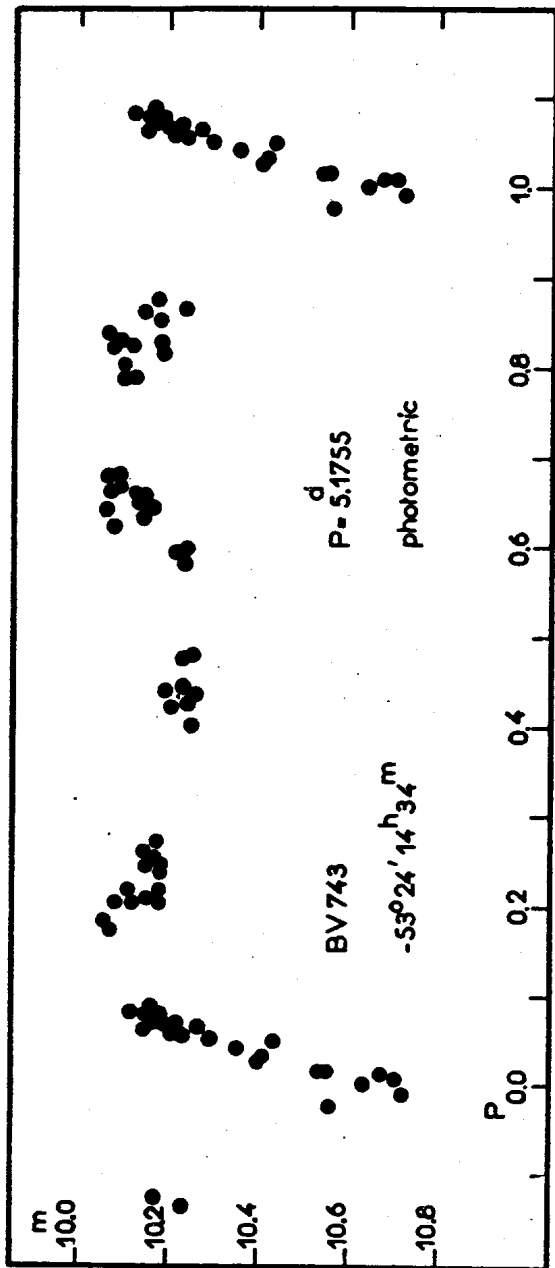
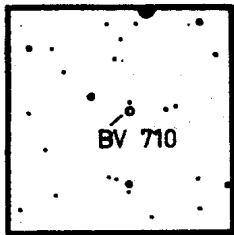
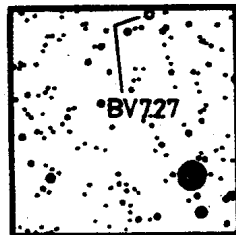


Fig. 7

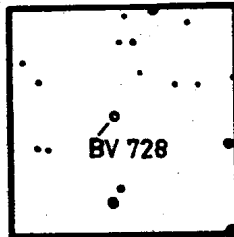
IDENT. CHARTS



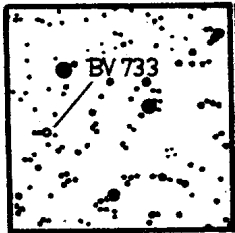
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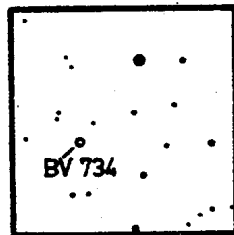
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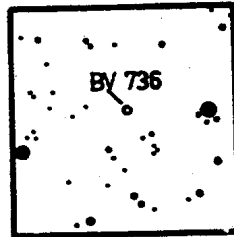
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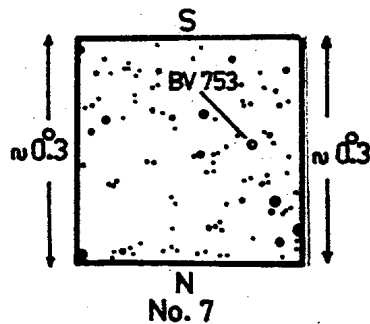
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No. 5



No. 6



No. 7