

8959
W1563
860-11

AGAIN

→ 22 1702 -10 18 16.5

22 16.2 -10 23 12.9 f 0.30
1950

• • • ←

✓ index white dwarf

38
8-56

May Dec 16 3884

R/Rya 13 28 04 -23 08 3-11

4.97	11.675 +0.72	25 Dec 22	2.23	+1.26	24 Dec 22	
4.84	+1.71	4 Jan 23	2.32	+1.77	29 Dec 22	
4.99	+1.675	+0.655	17 Jan 23	2.27	+1.80	19 Jan 23

2487 → 6 11 45⁴⁷ -12 23 23 ~~21.4~~
6 11.0 -12 23 130 f 0.26

812-9

with
bag

•••
•••

①

~~Blue~~

12.25 + 53 + 03 (D)

24 Dec 68
13.47 + 0.72 - 10.18

14.02 + 0.64 + 0.10 26 Sep 68

L 227-140
BPM 17113

3:09.9 - 54:29¹⁰⁰

14.1 081 163

49
3 11 58 - 54 14.5

→ 14.4 - 0.05

~~10~~ 1.24

14.78 + 0.52 - 0.07

Bruce blue

03^h 11 21-5 - 54° 17 41 (1950)

②

4.60 -406 881 -391 2.173
±8 ±5

3759

9 27 54 -2 38.8

4.60 -413 872 -393 1 Jan 1978

4.56 -394 869 -401 2.175 25 Dec 76

4.61 -413 880 -397 2.174 26 " "

4.61 -419 886 -406 2.171 28

4.63 -393 890 -391 - 29 " "

4.60 -411 887 -419 2.166 2 Jan 77

4.59 -403 867 -404 2.168 6 " "

4.53 -402 891 -402 2.177 7 " "

4.62 -392 866 -360 2.188 13 Mar 77

298
25

4.83 +170 1470 -395 -
158 1471 -390

7 44 40 +18 33

3003

4.83 1491 1443 -369
4.83 165 1494 -352

2 Jan 77
6 Jan 77

4.85 150 1463 -366 -

8 Jan 76

4.81 147 1473 -398 -

7"

4.84 136 1506 -410 -

12"

4.86 171 1479 -416 -

25"

4.92-151 1568 -427 -

26"

4.92-164 1459 -383 -

28

4.93 159 1463 -384 -

29

4.93 145 1493 -402 -

2 Jan 77

4.83 165 1450 -331

8 Jan 77

6.54 -723 853 -61 2.248
 22 ±7 ±10 ±6
 6.54 -717 853 -49 2.302
 798 2 39 00 -64 23 5
 6.57 -715 857 -54 2.302 7 Jan 77
 6.55 -732 858 -43 2.304 2 Jan 77
 6.57 -721 857 -46 2.311 5 Jan 76
 6.54 -726 860 -46 2.304 2 Jan 76
 6.55 -722 856 -48 2.292 2 Jan 76

6.55 -762 850 -61 - 12 " "
 6.57 -725 861 -54 2.296 24 " "
 6.54 -720 856 -40 2.299 25 " "
 6.54 -710 854 -63 2.302 26 "
 6.57 -706 833 -43 2.303 27
 6.57 -709 843 -43 2.297 29
 6.55 -715 843 -27 2.307 2 Jan 77

LD 51

0:06.1 - 21:17

12.8

14.5

0.25

79

—

LDS 1

-44

1820 + 1.44 - 25 mcs

6.96 - 430 876
 +5 - 876
 -430 876
 +5 876
 -278

8709B

6.98 - 427 878 - 367 914.77
 6.96 - 430 871 - 399 29 " "
 6.97 - 447 898 - 383 124.77
 6.97 - 429 872 - 374 2 " "
 6.96 - 431 874 - 385 724.78 36 "
 6.97 - 431 872 - 383 8 " " "
 7.01 - 443 874 - 370 9 " " "

6.95 + 0.14 77
 6.96 + 0.13 32.77
 6.96 + 0.135

1563

4

50

25'

-53

30

5.67

6.47 12''

1000

1564

3906

9.51 05 +2 33

6.02 -04

3199

9 50 10 -4 06

6.045 TH

7 SEP

1225	4	04	50	-22	44	5.52+32
1246	3	54	45	-30	33	5.52+03
			55		32	

Probability y_{sp}

5 ~~12~~ ~~50~~ ~~SP~~

Dependent

not variable

3 mfrs

4302

11

01

20

-26

42

6.22 + 32

(20=0.4)

4320

11

05

35

-28

36

6.5 AD

4042 10 16 30 -07 58] 5.23+30
3989 10 09 07 -08 18] 5.50+02

1/2 hour 2001
Hyparcho

HR 198 00 43 55 -42 47 5.93 47E

HR 175 60 41 40 -38 25 6.05 40E

0.11 = 0.2
0.15

5.0
5.0
5.0

5.0
5.0

4311

11

03

30

-47

33

566 + 25

4316

11

04

05

-49

16

6.12-02

]

4017 10 12 30 -51 07 5.28 +25]
4020 10. 12 35 -51 40 5.77 +14]
(5m 0.3)

330 01 02 15 +05 32 551 FEB]
367 01 13 34 +06 53 604 FEB]

45 mi?

HR2720 7 10.1 -30 44 6.09 +0.27

6.05 +0.394 -0.907 -0.009 21 Dec 67

197 177 161

7.714"

HR2735 7 09.2 -70 25 5.81-dF4

5.57 +0.427 -1.119 +0.061 21 Dec 67

213 +51 231

280
299
17

153 +501 243

30 58

1/4 h
1/4 h
1/4 h

1/4 h
1/4 h
1/4 h
1/4 h

34
13

2
2
2

RLMC

2788 7 17.2 -16.17 5.4 FIE

m_1' C_1' (4-2)'

S.67 +0.371 -0.661 +0.053 2 June 67

S.65 +0.388 -1.054 +0.024 2 June 67

22

195 +40 172

Wahner

2420-41

~~4-3-20~~ = 72

12.01 + 0.39 2420⁷²

~~12.48 + 0.44~~ + 0.02

~~12.01 + 0.34~~ 2420⁷⁰

12.41 + 1.04 + 80

12.01 + 0.37 3120⁷⁰

12.40 + 1.23 760000

12.01 + 0.38

12.40

4.64 -645 900 159 2342
902 47 10 = 10 2340
-650 902 210
7 58 40 902 - 18 19

3131

4.61 -653 914 201 2345 2 May 77
4.60 -673 916 198 - 7 Dec 76
4.62 -640 900 211 - 12 "
4.61 -652 -896 213 2359 25 "
4.65 -645 899 199 2335 2 Jan 77
4.65 -649 892 214 2336 11 Apr 77
4.62 -650 902 -222 2337 10 "
4.63 -650 901 212 2331 9 "
4.63 -653 901 220 2337 24 "
4.62 -635 897 209 2336 10 May 77

466 - 645 880 + 158 2336 7mg 78 26 "
463 - 644 894 + 201 2332 8" " "
465 - 642 883 + 206 2324 9" " "

-2

done

$$\begin{array}{r} 11.10 \\ 17.09 \\ \hline 28.19 \end{array}$$

$$\begin{array}{r} +95 \\ +94 \\ \hline 189 \end{array}$$

$$\begin{array}{r} +59 \\ +57 \\ \hline 116 \end{array}$$

$$\begin{array}{r} 10.87 \\ 10.83 \\ \hline 21.70 \end{array}$$

$$\begin{array}{r} +0.35 \\ +0.345 \\ \hline +0.35 \end{array}$$

$$\begin{array}{r} 24 \text{ Jan } 72 \\ 5 \text{ Jan } 73 \\ \hline 29 \text{ Jan } 73 \end{array}$$

530
1.142

00 07 58 -19 51.5

LP 764-9 00 06.7 -20 00 00 ~~14.2~~ m

14.2 15.8 m

aut m - HS

NOT G

Andrews

10607

1

40

30

-67

48

8.33

Job B

22" 2/20

12.51 + 116 + 1.02

A-2:452

19071

1

38

18

-68

10

+

4409

S.22 -113 1127 ~~1127~~ 16 July 77

S.23 -110 (1088) -422 17 July 77

S.18 -131 1124 -439 19 July 77

S.21 -131 1134 -460 20 July 77

S.24 -124 1132 -413 21 July 77

$$\begin{array}{r}
 5.26 - 324(11) \quad 882(12) - 502(11) \\
 5.26 - 327(15) \quad 886(10) - 512(11) \quad 10 \\
 \underline{5.25 - 326(10)} \quad \underline{891(10)} - 521(14) \quad 10 \\
 \underline{5.26 - 326} \quad \underline{886} - 511
 \end{array}$$

$$1010 \quad 3 \quad 17 \quad 39 \quad -62 \quad 35$$

G-1123

26.20
~~25.7~~

-11 01.5

AB } 26.43
CS } 16.9 + 4

56.4 + 0.535 13.5476

14.32 - 11.05 13.54

2740

7

1.1

-4641

4.48 to 3.33 for

4.52
4.44

m_1
 c_1
 $+0.355 - 1.002$
 $+0.363 - 1.015$

 $+0.359 - 1.008$
 2.52
 2.60
 $+6.4$

1.02y

+0.045
+0.035

2.46
2.46

+0.040

1.32

2.10

+2.22

1.81

4.60

2.52
 2.60
 $+6.4$
 $+6.40$

7.7 38"

6.29⁴²³ Am

7 15.0 -30 48

m' | c' | (R.Z.)'

6.30 +0.453 -0.714 -0.058 of Jan 67

172

226 + 49

2768

223065
5x Pde

23 45 09

-41

42

20 + 24

7.184 + 11.12 88

102703

ES-36

11 48 12 45 56

7.14 218 +0.010 17 mg 78

7.20 +0.028 13 mg 78

7.21 +0.010 15 mg 78

7.13 +0.019 17 mg 78

7.14 +0.015 12 mg 77

7.14 +0.005 30 mg 77

7.12 +0.010 3 mg 77

~~7.13~~ +0.010 (3)

cont

2590 4.67 -431 868 -233 2.206 11 Apr 77
4.66 -488 982 -240 2.207 10 " "
4.72 -467 894 -240 2.201 28 " "
4.68 -482 888 -221 2.210 29 " "
4.67 -443 872 -248 2.202 1 May 77
4.68 -446 896 -210 2.197 2 " "

-34 ✓

(32)

13.10	+0.52	+0.04	17 Aug 69
<u>13.13</u>	<u>+0.56</u>	<u>+0.13</u>	30 Aug 70
13.12	+0.56	+0.08	