1898phae.proj.2285B

Variable Stars
W Centauri -

D. T. B -

1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1999phae.proj..226SB

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

α Centauri

Variable Star

Measures &c

by

S. I. Bailey

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

BBB22.fold - unknown

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

ω Centauri - D.A.B.

Var. # 35 Sat. Nov. 19 '98

Plate X7788

13.00 13.30 13.20 = 13.23 .03 .03
13.20 m 3 1 n 13.30

X 6734

13.80 0 q 13.80

X 7757

—

X 7500

13.80 q 1, 1 n 13.90 13.90 = 13.90 00 00
13.90 14.00

X 5532

13.80 0 n 13.90

X 4613

13.47 0 o 13.47

X 4606

—

X 6728

—

X 6753

13.80 m 1, 2 n 13.10 13.10 = 13.10 00 00
13.10 13.30

X 4679

13.67 0 n 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 8445 -

13.67 Op 13.67

X 7838

14.00 Or 14.00

A 1746

13.80 Oq 13.80

X 6973

13.47 Oo 13.47

X 4589

13.80 m 1, 2 o 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X 6698

13.00 m 1, 3 m 13.10 13.00 = 13.05 - .05 - .05 -

13.00 13.30

X 5552

13.60 m 3, 1 m 13.30 13.20 = 13.25 - .05 - .05 -

13.20 13.30

A 1771

✓ —

X 6697

13.00 m 2, 2 m 13.20 13.10 = 13.15 - .05 - .05 -

13.10 13.30

X 6695 -

✓ pl, 2 r * 13.67 13.60 = 13.64 .03 .04 * Aquarius 15 to 25

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X4621

—

✓ X4609

—

X4006

13.80 0m 13.00

X6667

13.30 0m 13.90

~~X~~ ~~0m~~ 6776

✓

13.80 q1,1r 13.90 13.90 = 13.90 00 00

13.90 14.00

✓ X4585

13.80 q2,1r 14.00 13.90 = 13.90 .00 .00

13.90 14.00

✓ X5772

—

✓ A1741

13.30 0m

X6778

13.47 01,1r 13.57 13.57 = 13.57 00 00

13.57 13.67

X7394

13.80 0q 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ .X4675-
—

.6743
13.30 0m 13.30

.X6534
13.30 0m 13.30

.X5712
✓13.30 0m 13.30

✓ .X6955- dbl image.
—

✓ .X6779
—

.X6699
✓13.00 0m 13.00?

.X8443
13.30 0m 13.30

.X 5560
13.67 0 13.67

.X4678
13.30 0m 13.30?

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X6812

13.30 0m 13.80

X5773

X6959

13.30 0m 13.30

X6707

13.80 0q + 13.80

X6716

13.30 0m 13.30

X6693

13.60 m3.1m 13.30 13.20 = 18.20 - .00 - .00

13.20 13.30

X6725

13.30 m2.10 13.50 13.37 = 13.44 .06 .07

13.37 13.47

X6729

X6777

13.80 0q 13.80

X55558

13.80 0q 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

X.6780

✓ —

.X4610

✓ —

.X4681

13.V80 0q 13.80

.X6774

13.V67 0 b 13.67

✓ .X5223

—

.4614

13.V80 0m 13.80

.X6705-

13.V00 m3,1m 13.30 13.20 = 13.20- .00- .00-

13.20 13.30

.X4615-

13.V00 m3,1m 13.30 13.20 = 13.20- .00- .00-

13.20 13.30

.X6708

13.V80 0q 13.80

✓ .X7616

13.30 m1,10 13.40 13.37 = 13.35 .02 .01

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. x 6715

13.00 m3, 1w 13.90 13.20 = 13.25 05 .05

13.20 13.30

. x 4578

13.47 0o * 13.47

. x 6714

13.480 0q * 13.80

. x 6775

13.480 q1, 1n 13.90 13.90 = 13.90 00 00

13.90 14.00

✓. x 5235

—

. x 5-5-59

13.47 0o 13.47

. x 6717

13.00 0m 13.00

. x 4693

13.30 0m * 13.30

. x 4588

13.47 o1, 1p 13.57 13.57 = 13.57 00 00

13.57 13.67

✓. x 7443

14.00 0n 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. X7660
13.V67 0p 13.67

. X6696
13.V30 0m 13.30

✓ X5463
—

. X7019
13.V30 0m 13.30

. X6533
13.V47 0o ± 13.47

. X6633
13.V30 m2,10 13.80 13.87 = 13.44 .06 .07
13.87 13.47

. X6773
13.V67 0p 13.67

. 4 1750
14.00 0r 14.00

. X5544
13.V67 0p ± 13.67

. X5557
13.V47 0o 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X8331

13.47 01,1|v 13.57 13.57 = 13.57 00 00
13.57 13.67

X6957

13.00 m3,1m 13.90 13.20 = 13.25 05 .05
13.20 13.90

X4695

13.80 0q ± 13.80

X4694

13.47 0o 13.47

X8427

13.30 0m 13.30

X8388

13.80 q1,1m 13.90 13.90 = 13.90 00 00
13.90 14.00

X4608

13.80 0q ± 13.80

X4607

13.67 0|v ± 13.67

A1735

13.30 0m ± 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

√ Cent.

D.P.B.

Var. No. 76 Nov. 22. '98

✓ .X6714
13.6y 0/n 13.6y

✓ .X6775-
13.4y 01,1/n 13.5y 13.5y = 13.5y 00 00
13.5y 13.6y

✓ .X5235-
—

✓ .X5559
13.30 0n 13.30

✓ .X6717
13.30 n1,1o 13.40 13.3y = 13.38 .02 .01
13.3y 13.47

✓ .X4693
13.00 n3,1n 13.30 13.20 = 13.25- .05- .05-
13.20 13.30

✓ .X4588
13.4y 01,1/n 13.5y 13.5y = 13.5y 00 00
13.5y 13.6y

✓ .X7443
13.4y 02,1/n 13.6y 13.5y = 13.62 .05 .05
13.5y 13.6y

✓ .7660
13.30 n1,20 13.40 13.2y = 13.34 .06 .07
13.2y 13.4y

✓ .X6696
13.00 n3,1n 13.30 13.20 = 13.25- .05- .05-
13.20 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ . X 5463

—

✓ . X 7019

13.6y O/n ± 13.6y

✓ . X 4578

13.00 m 2, 2 m 13.20 13.10 = 13.1$\bar{0}$ .0$\bar{0}$ .0$\bar{0}$

13.10 13.30

✓ . X 6715^{-}

13.6y O/n 13.6y

✓ . X 7616

✓

13.00 m 3.1 m 13.30 13.20 = 13.2$\bar{0}$ .0$\bar{0}$ .0$\bar{0}$

13.20 13.30

✓ . X 6708

—

✓ . X 4615^{-}

13.30 O m (:) 13.30

✓ . X 6705^{-}

13.4y Oo 13.4y

✓ . X 4614

13.00 m 3, 1 m 13.30 13.20 = 13.2$\bar{0}$ .0$\bar{0}$ .0$\bar{0}$

13.20 13.30

✓ . 5223

—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X 6774

13.30 M1.1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X4681

13.67 M1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ X4610

—

~ X6780

—

✓ X 5558

13.30 Om 13.30

X6777

✓

13.67 M1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ X6729

—

✓ X6725

13.67 M1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X6693

✓

13.00 M3.1n 13.30 13.20 = 13.25 .05 .05

13.20 13.90

✓ X6716

13.00 M3.1n 13.30 13.20 = 13.25 .05 .05

13.26 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X6707

13.47 Oo ± 13.47

X6959

13.30 0m 13.30

X5773

—

X6812

13.00 0m 13.00

X4678

13.00 m3, 1m 13.30 13.20 = 13.25 − .05 − .05

13.20 13.30

X5560

13.47 Oo 13.47

X8443

13.67 m1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X6699

—

X6779

—

X695.5

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 5712

13.30 m1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

X 6634

13.30 0m 13.30

X 6743

13.47 0o 13.47

X 4671-

—

X 1394

13.47 0o 13.47

X 6778

13.67 0h 13.67

A 1741

13.30 0m 13.30

X 5772

—

X 4581-

13.47 0o ± 13.47

X 6776

13.67 h1.1q 13.77 13.70 = 13.74 .03 .04
13.74 13.78

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. X6667

13.30 m2.10 13.30 13.37 = 13.44 .06 .07

13.37 13.47

. X4006

. X4609

13.00 m3.1m (3) 13.30 13.20 = 13.28⁻ .08⁻ .08⁻

13.20 13.30

. X4621

. X6695⁻

13.67 Of * 13.67

. X6697

13.00 m3.1m 13.30 13.20 = 13.28⁻ .08⁻ .08⁻

13.20 13.30

. A 1771

13.30 m1.20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

. X 5552

13.67 Of 13.67

. X6698

13.00 m3.1m 13.30 13.20 = 13.28⁻ .08⁻ .08⁻

13.20 13.30

. X 4589

13.47 Oo

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X6973

13.67 Ol 13.67

✓ A1746

13.30 Ml, 2.0 13.44 13.27 = 13.34 .06 .07

13.27 13.47

X7838

✓

13.67 bl, 1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ X8445-

13.30 Om 13.30

✓ X4679

13.30 ml, 20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

✓ X6753

13.30 m2, 10 13.50 13.37 = 13.44 .06 .07

13.37 13.47

✓ X6728

—

✓ X4606

—

✓ X4613

13.30 ml, 10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X5532

13.30 Om 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X7500
13.47 Oo 13.47

✓ X7757
–

✓ X6734
13.67 01- 13.67

✓ X7785
13.30 Om 13.30

✓ X4694
13.47 Oo 13.47

✓ X8331
13.67 m1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X5557
13.30 m1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

✓ X5544
13.00 m3.1m 13.30 13.20 = 13.25⁻ .05⁻ .05⁻
13.20 13.30

✓ A1750
13.47 01.2- 13.57 13.47 = 13.52⁻ .05⁻ .05⁻
13.47 13.67

✓ X6773
13.47 Oo 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ .X6533

13.30 M1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ .X6633

13.47 Oo 13.47

✓ .X6957

✓ .X4695

13.30 Om 13.30

.X8427

✓ 13.30 M1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

.X8388

✓ 13.80 Oq 13.80

✓ .X4608

13.30 Om 13.30

.X4607

✓ 13.30 Om 13.30

✓ .A1735

13.00 M3 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

w Cent.

Var № 32. D.B. Sw. 29. '98

X 6774

13.80 q 1, 1n 13.90 13.90 = 13.90 00 00
13.90 14.00

X 5223
—

X 4681

13.00 0m 13.00

X 5558

13.67 0 n 13.67

X 6777

13.80 0q ± 13.80

X 6729
—

X 6725

13.30 n 1, 1 o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

X 6693

13.00 m 3, 1 m 13.30 13.20 = 13.25 .05 .03
13.20 13.90

X 6716

13.80 0 q 13.80

X 6707

13.30 0 m ± 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 6534

13.00 m 3, 1n 13.30 13.20 = 13.25 - .05 - .05

13.20 13.30

✓ X 6743

13.00 0 m 13.00

✓ A 1750

13.67 0 n 13.67

X 6773

13.80 q 1, 1 n 13.90 13.90 = 13.90 ~~00~~ ~~00~~

13.90 14.00

✓ X 6533

13.00 m 2, 2 m 13.20 13.10 = 13.15 - .05 - .05

13.10 13.30

✓ X 6632

13.47 0 o 13.47

✓ X 6714

13.50 0 q ± 13.80

X 6775

13.80 q 1, 1 n 13.90 13.90 = 13.90 ~~00~~ ~~00~~

13.90 14.00

X 5559

12.92 n 2, 1 m 12.92 12.90 = 12.91 .01 .01

12.90 13.00

✓ X 6717

13.47 0 o 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X4693

13.80 Oq ± 13.80

X4588

13.67 pl.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X7443

13.80 Oq 13.80

X7660

14.00 Or 14.00

X6696

13.67 Or ± 13.67

X7019

13.80 Oq 13.80

X6734

13.80 Oq 13.80

X7788

13.00 m2.2n 13.20 13.10 = 13.15 .05 .05

13.10 13.80

X4694

13.80 Oq 13.80

X8331

13.80 Oq 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. X 5557

13.67 Op 13.67

✓ . X 5544

13.80 Oq ± 13.80

. X 5712

13.00 Om 13.00

. 4678

13.80 Oq ± 13.80

✓ . X 5560

13.47 Oo 13.47

✓ . X 8443

14.00 Or 14.00

✓ . X 6959

13.47 Oo 13.47

✓ . X 6812

13.67 p1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ . X 5532

13.67 p1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ . X 7500

13.30 m1, 1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ . X 6973

13.80 qj 1.1 r 13.90 13.90 = 13.90 00 00

13.90 14.00

✓ . A 1746

13.80 0q 13.80

✓ . X 7838

14.00 0r 14.00

. X 8445

12.92 N 2.1 m 12.92 12.90 = 12.91 .01 .01

12.90 13.00

. X 4679

13.80 0q 13.80

. X 6753

13.30 m 1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ . X 4578

13.30 0m ± 13.30

. X 6715

13.80 qj 1.1 r 13.90 13.90 = 13.90 00 00

13.90 14.00

✓ . X 7616

13.30 0m 13.30

✓ . X 6708

—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. X4615

13.00 m2.2n ± 13.20 13.10 = 13.15 .05 .05

13.10 13.30

. X6705

12.72 h1.1m 12.82 12.90 = 12.86 .04 .04

12.90 13.00

. X4614

13.00 0m 13.00

. X6699

13.80 0q ± 13.80

. X7394

13.00 0m 13.00

. X6778

13.80 0q ± 13.80

. A 1741

13.67 h1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

. X 4585

12.72 h1.1m 12.82 12.90 = 12.86 .04 .04

12.90 13.00

. X 6776

13.80 0q 13.80

. X 6667

13.67 D h ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X4006

X6695

13.67 fv 1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X6697

13.80 Oq ± 13.80

✓ A1771

12.72 fv 1.2m 12.82 12.80 = 12.81 .01 .01
12.80 13.00

✓ X 5552

13.67 fv 1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X6698

13.67 fv 1.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X4589

14.00 Or 14.00

X4613

13.00 Om 13.00

✓ A1735

13.80 Oq 13.80

✓ X4607

13.80 Oq ± 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

.X4608

✓13.80 Oq 3 13.80

.X8388

✓13.00 m3, 1m 13.30 13.20 = 13.25 − .05 − .05

13.20 13.30

.X8427

✓ 13.67 O1 13.67

✓ .X4695−

13.47 Oo 13.47

✓ X6957

13.30 Om 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

ω Cent -

Var. No. 7

Dec 6 - 9r Dl B -

X6695 -

13.67 Or 13.67

X6697

14.00 Or (:) 14.00

A 1771

13.67 Or 13.67

X 5552

13.00 Om 13.00

X6698

13.80 Oq ± 13.80

X4589

13.00 m1, 1m 13.10 13.20 = 13, 13 - .05 - .05 -

13.20 13.30

X4613

14.00 Or ± 14.00

X4006

13.30 <m <13.30

X6667

13.30 Om 13.30

X6776

13.80 Oq 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X4385

14.00 Or ± 14.00

A 1741

14.00 Or 14.00

X6778

14.00 Or ± 14.00

X7394

13.30 Or 13.30

X6699

13.67 < r < 13.67

X4614

14.00 Or ± 14.00

X6705

14.00 Or 14.00

X4615

13.80 Og ± 13.80

X6708

13.80 Og ± 13.80

X7616

13.67 Or 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

.X6715
13.30 Om 13.30

.X4578
13.67 <1m <13.67

.X6753
13.80 Oq 13.80

.X4679
13.32 m2.10 13.42 13.87 = 13.44 .08 .07
13.37 13.47

.X8446
14.21 Os 14.21

.X7838
13.47 Oo 13.47

.A1746
13.80 <q <13.80

.X6973
13.00 m1.2m 13.10 13.10 = 13.10 ~~00 00~~
13.10 13.30

.X7500
14.00 On 14.00

.X5532
13.80 Oq 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

X6812

14.00 Or ± 14.00

X6774

13.67 Or ± 13.67

X6959

13.47 Oo 13.47

X8443

14.00 Or 14.00

X4678

13.30 Om (:) 13.30

X5712

13.30 Mul, lo 13.40 13.37 = 13.38 .02 .01

13.87 13.47

X5544

13.80 Oq ± 13.80

X5567

13.67 Or 13.67

X8331

13.67 Mul, lq 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X4694

14.00 Or 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X7788

14.20 Oh 14.20

X6734

13.30 nl, 1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X7019

13.80 Oq ± 13.80

X6696

13.80 Oq ± 13.80

X7660

14.20 Oh 14.20

X7443

14.47 o1, 1|~ 14.57 13.57 = 13.57 00 00

13.57 13.67

X4588

13.30 Om 13.30

X5560

13.30 Om 13.30

X4693

13.80 Oq ± 13.80

X6717

13.67 O|~ 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

.X5529

14.20 Os 14.20

.X6775

13.67 Of 13.67

.X6714

13.00 m1, 1n 13.10 13.20 = 13.13 .03 .03

13.20 13.30

.X6633

14.00 Or 14.00

.X6533

13.47 o1.1f 13.37 13.37 = 13.37 00 00

13.37 13.67

.X6773

13.30 m2,1o 13.30 13.37 = 13.44 .06 .07

13.37 13.47

.A1750

13.30 On 13.30

.X6743

14.20 Os = 14.20

.X6534

13.47 Oo 13.47

.X6707

13.67 <f < 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

.X6716

13.30 Om 13.30

.X6693

13.47 Oo ± 13.47

.X6720-

13.67 ~1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

.X6729

—

.X6777

13.80 Oq ± 13.80

.X3330-8

13.47 o1.1 ~ 13.57 13.57 = 13.57 00 00

13.57 13.67

.X4681

13.80 Oq 13.80

.X5223

13.00 m1 ± 13.10

.X4607

13.80 Oq ± 13.80

.X4608

13.67 O~ ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X8388

13.00 m1, 2m 13.10 13.10 = 13.10 00 00

13.10 13.30

X8427

13.47 01.1 1/2 13.57 13.57 = 13.57 00 00

13.57 13.67

X4695-

14.00 R1.1A 14.10 14.10 = 14.10 00 00

14.10 14.20

X6957

13.90 0m 13.90

A1735-

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

ω Cent.

Var. № 36. Dec. 7-'98 D.H.B.

χ 5·5·5·8

13.67 O|r 13.67

χ 4681

13.47 Oo 13.47

χ 6777

13.67 O|r ± 13.67

χ 6729

—

χ 6725

13.80 q|1,1r ± 13.90 13.90 = 13.90 ~~oo oo~~

13.90 14.00

χ 6693

13.47 o1,1|r 13.87 13.87 = 13.87 ~~oo oo~~

13.87 13.67

χ 6716

13.30 Om 13.30

χ 6707

13.80 Oq ± 13.80

χ 6534

13.47 Oo ± 13.47

χ 6743

13.67 O|r ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

A1750

13.√30 m1,20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X6533

13.√80 0q ± 13.80

X6633

13.√47 01.1k 13.37 13.37 = 13.37 00 00

13.37 13.67

X6714

13.√30 m1.1o 13.40 13.37 = 13.44 .06 .07

13.37 13.47

X6775-

13.√30 0m 13.30

XJJJ-9

13.√67 0k 13.67

X6717

13.√67 k1.1q ± 13.77 13.70 = 13.74 03 .04

13.70 13.80

X4693

13.√67 k1.1q ± 13.77 13.70 = 13.74 .03 .04

13.70 13.80

√ X 55-60

13.67 0k ± 13.67

√ X 45-88

13.80 q1.2N 13.90 13.80 = 13.85 .05 .05

13.80 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

√ X 5223

X7443

√ 13.47 Oo 13.47

X7660

√ 13.47 Oo 13.47

X6696

13.67 O|~ 13.67

√ X7019

13.30 Om 13.30

√ X6734

13.47 o1.1|~ 13.57 13.57 = 13.57 oo oo

13.57 13.67

√ X7788

13.30 Om 13.30

√ X4694

13.67 |~1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

√ X8331

13.47 Oo 13.47

√ X 5557

13.30 ~2.10 13.50 13.37 = 13.44 .06 .07

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. X 5544

13.67 Oh 13.67

. X 5712

13.67 h1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

. X 4678

13.47 o1.1h 13.57 13.57 = 13.57 00 00

13.57 13.67

. X 8443

13.67 Oh 13.67

✓. X 6959

13.67 Oh 13.67

. X 6774

13.80 n1.1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

. X 6812

13.30 On 13.30

. X 5532

13.47 o1.1h 13.57 13.57 = 13.57 00 00

13.57 13.67

. X 7500

13.80 Oq 13.80

✓. X 6973

13.47 Oo 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

A1746

13.47 Oo 13.47

X7838

13.00 m2.1w 13.20 13.20 = 13.20 00 00

13.20 13.30

X8443-

13.67 01w 13.67

X4679

13.80 0q 13.80

X6753

13.80 0q 13.80

X4378

13.47 01.1w ± 13.57 13.57 = 13.57 00 00

13.57 13.67

X6715-

13.47 Oo ± 13.47

X7616

13.30 Ow ± 13.30

X4615-

13.67 w1.1q ± 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X6705

13.47 01.1w 13.57 13.57 = 13.57 00 00

13.57 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

. λ 6708

13.67 Ol : 13.67

. λ 4614

13.80 Oq 13.80

. λ 6699

13.00 m 2, 10 13.20 13.37 = 13.28 .08 .09

13.37 13.47

. λ 7394

13.80 Oq 13.80

. λ 6678

13.67 Ol ± 13.67

. λ 1741

13.64 ml. 1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

. λ 4585

13.67 Ol ± 13.67

. λ 6776

13.30 m 1. 1o ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

. λ 6667

13.80 Oq : 13.80

. λ 4006

13.67 Ol (:) 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X4613

13.47 O1,1r ± 13.37 13.37 = 13.37 00 00

13.37 13.67

X4589

13.40 m1,1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X6698

13.30 On (2) 13.30

X5552

13.67 O1r 13.67

X 6697

13.30 m1,1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

A 1771

13.80 Oq 13.80

X 6695

14.00 On 14.00

X 6773

13.47 Oo 13.47

A 1735

X 6957

13.67 r1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 4695 -

13.47 Oo ± 13.47

X 8427

13.47 Oo 13.47

X 8388

13.30 m l.l o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X 4608

13.60 m l.l n 13.10 13.20 = 13.15 - .05 - .05 -

13.20 13.30

X 4607

13.47 Oo 13.47

This star from its distance from sequence is dif. much more precise measures would be obtained by a close sequence of comp. stars.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

w Cent

Var No. 74 Dec. 8- 9h- N3

√ A1741

14.21 S 1.1 t 14.31 14.28 = 14.30 .01 .02

14.28 14.38

X 4585

√ 13.80 < 9 < 13.80

√ X 6776

13.67 O 1 13.67

X 6667

√ 13.80 Oq ± 13.80

X 4606

13.67 < 1 < 13.67

X 4613

√ 13.67 < 1 < 13.67

X 4589

√ 14.20 O A ± 14.20

√ X6698

13.80 < 9 < 13.80

√ X 5552

14.00 O 2 14.00

X 6697

√ 13.80 < 9 < 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

A 1771

✓ 13.67 ml.lq 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X6695–
13.67 0r ± 13.67

X6773
✓ 13.00 ml, 2m 13.10 13.10 = 13.10 00 00
13.10 13.30

✓ X6778
–

✓ X7394
14.20 0s ± 14.20

✓ X6699
–

X4614
✓ 13.47 0o ± 13.47

✓ X6708
–

X6705–
✓ 13.67 0r 13.67

X7616
✓ 13.80 q2, 1r 14.00 13.90 = 13.93– .03– .03–
13.80 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 4615–

13.80 <9 < 13.80

X 6715–

13.67 Oh = 13.67

X 4578

1300 ml, lm 13.10 13.20 = 13.13 – .05 – .05

13.20 13.30

X 6753

13.00 ml, lm 13.10 13.20 = 13.13 – .05 – .05

13.20 13.30

X 4679

13.67 Oh = 13.67

X 8445–

X 7838

14.00 Oh 14.00

A 1746

13.80 <9 <13.80

X 6973

14.00 Oh 14.00

X 7500

13.67 ml, lq .. 13.77 13.70 = 13.74 .03 .04

13.70 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 5532
14.00 On ± 14.00

X 6812
13.00 m 2.1m 13.20 13.20 = 13.20 00 00
13.20 13.30

X 6774
13.00 m 2.1m 13.20 13.20 = 13.20 00 00
13.20 13.30

X 6959
14.20 On ± 14.20

X 8443
14.20 On 14.20

X 4678
13.30 Om 13.30

X 5712
14.20 On 14.20

X 5544
13.80 <9 < 13.80

X 5557
14.00 On ± 14.00

X 8321
13.00 m 3.1m 13.30 13.20 = 13.25 .05 .05
13.20 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 4694
13.80 Oq 13.80

X 7788
14.20 Ob + 14.20

X 6734
13.32 m 2.10 13.52 13.37 = 13.44 .08 .07
13.37 13.47

X 7019
13.80 <q <13.80

X 6696
14.00 Or + 14.00

X 7660
13.47 Oo 13.47

X 7443
14.20 Ob 14.20

X 5223
—

X 4588
14.00 Or 14.00

X 5560
14.00 Or ± 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 4693
—

✓ X 6717
13.80 <9r ∠ 13.80

X 5559
✓ 13.80 9r 1.1r 13.90 13.90 = 13.90 00 00
13.90 14.00

✓ X6775 —
13.47 Oo 13.47

X6714
✓ 13.30 n2.10 13.50 13.37 = 13.44 .06 .07
13.37 13.47

X6632
✓ 14.00 Or 14.00

X6533
✓ 13.80 <9r ∠ 13.80

A 1750
✓ 14.20 Os 14.20

✓ X6743
13.30 Om 13.30

X6534
✓ 14.20 b1.1t 14.30 14.31 = 14.30 .00 .01
14.31 14.41

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 6707

13.67 < N ∠ 13.67

X 6716

14.00 N 1.1 A 14.10 14.10 = 14.10 00 00

14.10 14.20

X 6693

14.00 < N ∠ 14.00

X 6725

13.57 01.1 N 13.67 13.57 = 13.57 00 00

13.57 13.67

X 6729

—

X 6777

13.80 < q ∠ 13.80

X ~~4861~~ 4681

14.20 0 A 14.20

X 5555.8

13.80 q 1.1 N 13.90 13.90 = 13.90 00 00

13.90 14.00

X 4607

—

X 4608

—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

X8388

13.67 Oh 13.67

X8427

14.00 Rl.1S 14.10 14.10 = 14.10 00 00

14.10 14.20

X4695-

13.30 Om 13.30

X6957

14.20 Os 14.20

A1736-

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent

Var No 72 Dec. 9. '98 A.A.B.

✓ A1771
13.80 Oq 13.80

✓ X 5552
13.67 M1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X6773
13.67 O/- ± 13.67

✓ X6698
—

✓ X4589
13.80 Oq ± 13.80

✓ X4613
—

✓ X4006
—

✓ X6667
14.00 Or 14.00

✓ X 6697
14.00 Or ± 14.00

✓ A1741
13.80 Oq ± 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X4585-

13.80 < 9 < 13.80

X4607

✓ 13.30 On ± 13.80

✓ A1735-

X6957

✓ 13.80 Og ± 13.80

X4695-

✓ 13.80 Og ± 13.80

X8427

✓ 13.67 Op ± 13.67

X8388

✓ 13.47 Oo ± 13.47

✓ X4608

13.30 On (±) 13.30

✓ X6695-

13.80 Og 13.80

✓ X5558

13.80 Og 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X4681

13.47 ✓ 01.1[n] 13.57 13.57 = 13.57 00 00

13.57 13.67

X6777

13.80 ✓ 09 ± 13.80

X6729

—

X6725

13.30 ✓ n1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X6692

13.67 ✓ 01[n] ± 13.67

X6716

13.67 ✓ 01[n] ± 13.67

X6707

13.67 ✓ <1[n] < 13.67

X6534

14.00 ✓ 0[n] 14.00

X6743

13.30 ✓ n2.10 13.50 13.27 = 13.44 .06 .07

13.37 13.47

A1750

13.30 ✓ n1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 65-32
13.80 Oq ± 13.80

X6633
✓
13.67 Op ± 13.67

X6714
✓
13.80 Oq (?) 13.80

X6775
✓
13.80 Oq 13.80

X 5559
✓
13.30 Om 13.30

X6717
✓
13.30 m 2.10 ± 13.30 13.37 = 13.44 .06 .07
13.37 13.47
X 4693
✓
13.30 Om (?) 13.30

X 5560
✓
13.47 01.1p ± 13.57 13.57 = 13.57 00 00
13.57 13.67
X 4588
✓
13.47 Oo 13.47

✓ X 5223

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X7443

13.47 O1.1r 13.57 13.57 = 13.57 00 00
13.57 13.67

X7660

13.47 Oo 13.47

X6696

14.00 Or 14.00

X7019

13.30 m2.1o ± 13.50 13.37 = 13.44 .06 .07
13.37 13.47

X6734

13.47 Oo 13.47

X7788

13.67 O/r ± 13.67

X4694

13.30 Om ± 13.30

X8331

47
13.30 Oo 13.30

X5557

13.30 Om 13.30

X5544

13.30 m2.1o 13.50 13.37 = 13.44 .06 .07
13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 5712

13.80 Oq 13.80

X4678

13.47 Oo ± 13.47

X8443

13.80 m 2.10 13.30 13.37 = 13.44 06 .07

13.37 13.47

X6959

13.47 01.1r ± 13.57 13.37 = 13.57 00 00

13.37 13.67

X6774

13.67 Or

X6812

13.30 m1.20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X5532

13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X7500

13.80 q1.1r 13.90 13.90 = 13.90 00 00

13.90 14.00

X6973

13.30 m1.10 ± 13.40 13.37 = 1338 .02 .01

13.37 13.47

A 1746

13.30 m2.10 13.30 13.37 = 13.44 .06 .07

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X7838

✓ 13.30 m1.10 13.40 13.37 = 13.38 .02 .01
13.37 13.47

8445-

✓ 13.67 p1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X4679

✓ 13.30 m1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

X6753

✓ 13.00 m3.1m 13.30 13.20 = 13.25- .05- .05-
13.20 13.30

✓ X4578

13.80 m3.1m 13.30 13.20 = 13.25- .05- .05-
13.20 13.30

X6715-

✓ 13.80 q1.2r 13.90 13.80 = 13.85- .05- .05-
13.80 14.00

✓ X4615-

—

✓ X7616

13.47 Oo 13.47

X6705-

✓ 13.30 m1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

✓ X6708

13.80 Oq 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X 6614

✓ X 6699

X 7394

✓
13.47 O1.1h ± 13.57 13.57 = 13.57 ~~00 00~~

13.57 X 6778 13.67

✓
13.80 Og ± 13.80

✓ X 6776

13.80 Og 13.80

star is distant from sequence

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22858

60

Cent.

Var. No 75 — Due 15-98 D13

✓ X6776
13.47 Oo 13.47

✓ X6690
13.30 Om 13.30

✓ X 5-5-5-8
13.30 Om 13.30

✓ X4681
13.30 m 2, 10 13.50 13.37 = 13.44 .06 .07
13.37 13.47

✓ X6777
13.30 m 1, 10 13.40 13.37 = 13.38 .02 .01
13.37 13.47

✓ X6729
—

✓ X6725
13.30 Om 13.30

✓ X6693
—

✓ X6716
13.30 Om 13.30

✓ X6707
13.47 < 0 < 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X6534

13.00 m 3, 1 n 13.30 13.20 = 13.25 05 .05

13.20 13.30

✓ X6743

13.30 n 1, 1 o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ A1750

13.47 0 o 13.47

X6533

✓ 13.47 01, 1 p ± 13.57 13.57 = 13.57 00 00

13.57 13.67

X6633

✓ 13.47 0 o 13.47

X6714

✓ 13.67 p 1, 2 q 13.77 13.60 = 13.68 .09 .08

13.60 13.80

✓ X6775

13.67 0 p ± 13.67

X5559

13.00 ✓ m 2, 1 n 13.20 13.20 = 13.20 00 00

13.20 13.30

X6717

13.30 ✓ 0 n (½) 13.30

✓ X 4693

—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X5560

13.47 Oo 13.47

✓ X4588

13.67 pl.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X5223

✓ —

X7443

✓ 13.67 O|n 13.67

✓ X7660

13.30 m2.1o 13.50 13.37 = 13.44 .06 .07

13.37 13.47

✓ X6696

13.00 m3.1m 13.30 13.20 = 13.25 .05 .05

13.20 13.30

X7019

✓ 13.30 m1.1o (±) 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X6734

✓ 13.67 O|n 13.67

X7788

✓ 13.30 m1.1o 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X4694

✓ 13.30 m2.1o 13.50 13.37 = 13.44 .06 .07

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X8331

13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X5557

13.47 01.1h 3. 13.57 13.57 = 13.57 00 00

13.57 13.67

X5544

—

X5712

13.47 Oo 13.47

X4678

—

X8443

13.67 Oh 13.67

X6959

13.30 Om 13.30

X6774

13.67 Oh 13.67

X6812

1367 Oh 13.67

X5532

13.47 01,2h 13.37 13.47 = 13.42 .05 .05

13.47 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

61

✓ X7500

13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X6973

13.30 0m 13.30

A1746

✓

13.47 00 13.47

X7838

✓13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X8441-

✓

13.47 00 13.47

X4679

13.6✓7 p1.1q ± 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X6753

✓

13.30 m2.10 13.50 13.37 = 13.44 .06 .07

13.37 13.47

X4578

✓

13.67 p1.1q ± 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X6705-

✓6

13.37 m1.20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X6715-

✓

13.47 00 ± 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X4615 —

✓ X7616
13.67 Om ± 13.67

✓ X6708 —

✓ X4614
13.67 Om ± 13.67

✓ X6699 —

X7394
✓ 13.30 m1.10 13.40 13.37 = 13.38 .02 .01
13.37 13.47

X6778
✓ 13.30 Om ± 13.30

X6698
✓ 13.30 m2.10 13.40 13.37 = 13.44 .06 .07
13.37 13.47

X6773
✓ 13.80 Oq 13.80

X5552
13.30 Om ± 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

66

✓ A1771

—

✓ X4613

13.47 Oo ± 13.47

X4589

✓

13.47 02.1r ± 13.67 13.57 = 13.62 .05⁻ .05⁻

13.57 13.67

✓ X6667

13.00 m1.1m 13.10 13.20 = 13.18⁻ .05⁻ .05⁻

13.20 13.30

✓ X4006

—

~~E~~

X6697

✓

13.00 m1.1m 13.10 13.20 = 13.18⁻ .05⁻ .05⁻

13.20 13.30

A1741

✓

13.67 01r ± 13.67

X4585

✓

13.30 m1.1o ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X4608

—

X8388

✓

13.30 m2.1o 13.50 13.37 = 13.44 .06 .07

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 8427

13.00 M 2, 1 m 13.20 13.20 = 13.20 ~~00 00~~

13.20 13.30

X 4695 —

✓

13.30 O m 13.30

✓ X 6957

13.30 O m 13.30

✓ A 1735 —

✓ X 4607 —

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent.

Var № 83 Dec. 11 1895. DIB.

✓ X 5560
13.63 $0\bar{h}^2$ ± 13.63

X 4588
✓
13.63 $\bar{h}1.2q^2$ ± 13.73 13.67 = 13.71 .04 .04
13.67 13.87
✓ X 5223
—

✓ X 4693
—

✓ X 6717
13.57 $0o^2$ 13.57

X 5559
✓
13.51 $0l.1\bar{h}^2$ 13.61 13.53 = 13.58 .03 .03
13.53 13.63
X 6775
✓
13.51 $0o^2$ 13.57

X 6714
✓
13.63 $\bar{h}1.1q^2$ 13.73 13.77 = 13.76 .01 .01
13.77 13.87
X 6633
✓
13.87 $0q^2$ 13.87

X 6533
✓
13.87 $0q^2$ ± 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

A 1750

✓ 13.82 N 2, 10 13.52 13.41 = 13.46 .06 .03

13.41 13.51

X 6743

✓ 14.04 O R² 14.04

X 6534

✓ 13.51 O o² 13.81

X 6707

✓ 13.32 N 1, 10 13.42 13.41 = 13.42 00 .01

13.41 13.81

X 6716

✓ 13.87 q 2, 1 R² 14.07 13.94 = 14.00 .07 .06

13.94 14.04

X 6693

✓ 13.51 O 1, 1 R² ± 13.61 13.55 = 13.58 .03 .03

13.55 13.68

X 6725-

✓ 13.32 N 1, 20² 13.42 13.31 = 13.36 .06 .03

13.31 13.51

✓ X 679

X 6777

✓ 13.51 O o² 13.51

✓ X 4681

13.62 O R² 13.69

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 5558

13.32 m 2, 10 13.52 13.41 = 13.46 .06 .05
13.41 13.51

X 6695

13.63 f 1, 1 q 13.78 13.77 = 13.76 .01 .01
13.77 13.87

X 6776

13.81 o 1. 1 p 13.61 13.58 = 13.58 .03 .03
13.53 13.63

X 4585

13.87 0 q ± 13.87

A 1741

13.51 o 1, 2 p ± 13.61 13.43 = 13.53 .08 .08
13.43 13.63

X 6697

13.08 m 3, 1 m 13.38 13.22 = 13.30 .08 .08
13.22 13.32

X 4006

—

X 6667

14.04 0 r ± 14.04

X 4589

13.32 m 2, 10 13.52 13.41 = 13.46 .06 .05
13.41 13.51

X 4613

13.63 0 p ± 13.60

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ A1771

13.87 Oo² ± 13.87

✓ X-5-5-2

13.87 Oq² 13.87

✓ X6779 3

13.87 q²1.1R² 13.97 13.94 = 13.96 .01 .02

13.94 14.04

X6698

✓

13.87 Oo² 13.87

X6778

✓

13.82 Om² 13.82

X7394

✓

13.87 q²1.1R² 13.97 13.94 = 13.96 .01 .02

13.94 14.04

X6699

✓

13.87 Oq² (±) 13.87

✓ X4614

—

X6708

✓ 13.87 Oo² ± 13.87

X7616

✓

13.87 q²2.1R² 14.07 13.94 = 14.00 .07 .06

13.94 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X4615⁻

13.87 q² 1, 1 π² ± 13.97 13.94 = 13.96 .01 .02

13.94 14.04

✓ X6715⁻

—

✓ X6705⁻

14.04 0π² 14.04

✓ X4578

—

✓ X6753

✓

13.32 π² 2. 10² 13.52 13.41 = 13.46 .06 .05⁻

13.41 13.51

X4679

✓

13.87 0q² ± 13.87

X8445⁻

✓

13.87 0q² 13.87

X7838

✓

13.57 0² 1. 2 μ² ± 13.61 13.43⁻ = 13.53 .08 .08

13.45⁻ 13.65⁻

A1746

✓

13.87 0q² ± 13.87

X6973

✓

13.57 0² 1. 2 μ² 13.61 13.43⁻ = 13.53 .08 .08

13.45⁻ 13.65⁻

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X7500
14.04 Ox 14.04

✓ X5532
13.51 Oo² ± 13.51

✓ X6812
13.87 Oq² ± 13.87

✓ X6774
13.63 Op² ± 13.63

✓ X6959
13.57 O1.1 p² 13.61 13.55 = 13.58 .03 .03
13.65 13.63

✓ X8443
13.51 Oo² 13.51

✓ X4678
13.51 Oo² (2) 13.51

✓ X5712
14.04 ON ± 14.04

3 ✓ X5544
14.51 Oo² (3) 13.51

✓ X5557
13.63 Op² 13.63

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X8331
13.87 Oq 13.87

X4694
13.57 Oo 13.5-1

X7788
13.32 ni 2, 10 13.5-2 13.41 = 13.46 .06 .05-
13.41 13.5-1

X6734
13.63- Oni 13.63-

X7019
13.32 ni 2, 10 13.5-2 13.41 = 13.46 .06 .05-
13.411 13.5-1

X6696
13.37 o 1. 1 ni ± 13.58 13.5-9 = 13.5-8 .01 .01
13.53- 13.63-

X7660
13.63- Oni 13.63-

X7443
13.38 Oni 13.38

X4607

A1735-

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phaej.proj.2285B

X6967

✓ 13.87 Oq² ± 13.87

X4696

✓ 13.87 Oq ± 13.87

X8427

✓ 13.87 q² 1.1 π² 13.97 13.94 = 13.96 .01 .02

13.94 14.04

X8388

✓ 13.87 O0² 13.87

✓ X4608

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cet -
Var - No. 77

Dec. 16-98
D+B-

X 5532
13.60 Op + 13.65

X 6812
13.60 qp 2, 1n 13.85 13.94 = 13.90 .05 .04
13.94 14.04

X 6774
13.60 p 1, 1q 13.75 13.77 = 13.76 .01 .01
13.77 13.84

X 6959
13.84 Oq + 13.84

X 8443
13.84 Oq + 13.84

X 4678
13.82 n 1, 1o 13.42 13.41 = 13.42 .00 .01
13.41 13.51

X 5712
13.65 p 1, 2q 13.75 13.69 = 13.71 .04 .04
13.69 13.84

X 5544
13.84 Oq + 13.84

X 5557
13.65 p 2, 1q 13.85 13.77 = 13.81 .04 .04
13.77 13.84

X 8331
13.51 Oo

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cent. var. No 77

. X6725

13.87 Oq² ± 13.87

. X6729

. X6777

13.82 n² 2, 10² 13.82 13.41 = 13.46 .06 .05

13.41 13.51

. X4681

13.51 O²1, 1f² 13.61 13.55 = 13.58 .03 .03

13.55 13.63

. X5558

13.51 Oo² ± 13.51

. X6695

13.65 Oq² 13.60

. X6776

13.51 Oo² 13.51

. X4585

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

d

A1471

13.87 Oq² ± 13.87

✓ X6697

13.51 Oo² ± 13.51

✓ X4006

✓ X6667

13.65 p² 1,1 q² 13.70 13.77 = 13.76 .01 .01
13.77 13.87

✓ X4589

13.65 Op² 13.65

✓ X4613

✓ A 1771

13.65 Op² ± 13.65

X 5552

✓ 13.32 n² 1,1 o² 13.42 13.41 = 13.42 00 .01
13.41 13.51

✓ X6773

13.87 Oq² 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

d

a

WCnt

Var. No 77 Dec. 16 - 98 A.S.B.

X 7660

13.65 h 2.1 q 13.80 13.77 = 13.81 .04 .04

13.77 13.87

X 5560

13.57 O 1.1 h 13.61 13.55 = 13.58 .08 .09

13.55 13.60

X 4588

13.65 O h 13.60

X 5223

—

X 4693

—

X 6717

13.87 O q 13.87

X 5559

13.51 O o 13.51

X 6675

13.60 O h 13.60

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X6714
13.5-1 O5 13.5-1

✓ X6633
13.65- fi 1.1g- 13.75- 13.77 = 13.76 .01 .01
13.77 13.87

✓ X6533
13.32 ni 2.10- 13.5-2 13.41 = 13.46 .06 .05-
13.41 13.5-1

✓ A1750
13.65- O fi 13.65-

✓ X6743
13.65- O fi 13.65-

✓ X6534
13.32 ni 2.10- 13.5-2 13.41 = 13.46 .06 .05-
13.41 13.5-1

✓ X6707
—

✓ X6716
13.65- O fi 13.65-

✓ X6693
13.5-1 O5 13.5-1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

ω Aut var. No 77

E

.X6698

14.04 O n² ± 14.04

.X6778

13.82 n 1.10² 13.42 13.41 = 13.42 00 .01

13.41 13.0⁻1

.X7394

13.60 O p² ± 13.60⁻

✓.X6699

—

.X4614

—

.X6708

13.82 ± n 2.10² 13 18.0⁻2 13.41 = 13.46 .06 .05⁻

13.41 18.0⁻1

.X7616

13.0⁻1 O o² 13.0⁻1

✓.X4615⁻

—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

f

X6715

13.8-1 O0² ± 13.8-1

X6705

13.87 O9² 13.87

X4578

13.68 O5² 13.68

X6753

13.8-1 O0² 13.8-1

X4679

13.8-1 O0² 13.8-1

X8443

13.68 O5² ± 13.68

X7838

13.87 O9² 13.87

A1746

13.32 13.41 Sn²1.1o² 13.42 13.8-1 13.41 = 13.42 00.01

X6973

X7500

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X 4694.
13.60⁻ Op² + 13.60⁻

✓ X 7788
13.87 Og² + 13.87

✓ X 6734
13.81 Oo² 13.81

✓ X 7019
✓ 13.81 O.o² 13.81

✓ X 6696
13.87 g 1.1 n² 13.97 13.94 = 13.96 .01 .02
13.94 14.04
✓ X 7443
13.87 g 1.1 n² 13.97 13.94 = 13.96 .01 .02
13.94 14.04

f 4607
—

✓ A 1735⁻
—

✓ X 6957
13.65 Op². + 13.60⁻

✓ X 4695⁻
✓ 13.60⁻ Op² + 13.60⁻

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X8427
13.6s − Op + 13.6s −

✓ X 8388
13.6s − Op + 13.6s −

X8608

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

N Cent.

Var. No 1 Dec. 22. '98 DIB

✓	X9063				
9.78	C1, 2d	9.88	10.11 = 10.00	.12	.11
10.11		10.31			
✓	X9067				
9.78	C1, 1d	9.88	10.21 = 10.04	.16	.17
10.21		10.31			
	X9068				
✓9.78	C1, 3d	9.88	10.01 = 19.94	.06	.07
10.01		10.31			
	X9069				
9.78	C1, 1d	9.88	10.21 = 10.04	.16	.17
10.21		10.31			
	X9070				
✓9.78	C1, 1d	9.88	10.21 = 10.04	.16	.17
10.21		10.31			
	X9305				
✓10.06	C4, 1f	11.06	11.08 = 11.07	.01	.01
11.08		11.18			
	X9020				
✓10.31	0d	10.31			
✓	X9022				
10.31	0d	10.31			
✓	X9021				
10.31	0d	10.31			
✓	X9071				
9.78	C1, 2d	9.88	10.11 = 10.00	.12	.11

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9062
9.78 C1.1d 9.88 10.21 = 10.04 .16 .17
10.21 10.31

X9027
✓ 10.31 O d 10.31

X9026
✓ 10.31 O d 10.31

X9025-
10.31 O d 10.31

X9072
✓ 9.78 C1.3 d 9.88 10.01 = 9.94 .06 .07
10.01 10.31

X9271
✓ 9.78 C2.1d 9.98 10.21 = 10.10 .12 .11
10.21 10.31

X9074
✓ 9.78 C1.1d 9.88 10.21 = 10.04 .16 .17
10.21 10.31

X9075-
✓ 9.78 C1.1d 9.88 10.21 = 10.04 .16 .17
10.21 10.31

✓ X9064
9.78 C1.1d 9.88 10.21 = 10.04 .16 .17
10.21 10.31

✓ X9065-
9.78 C1.1d 9.88 10.21 = 10.04 .16 .17
10.21 10.31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 9066
✓ C 1, 2 d
9.78 9.88 10.11 = 10.00 .12 .11
10.11 10.31

X 9073
~~9.78~~ C 2, 1 d 9.98 10.21 = 10.10 .12 .11
10.21 10.31

✓ X 9216
10.66 e 1, 2 f 10.76 10.98 = 10.87 .11 .11
11.18

✓ X 9024
10.31 O d 10.31

✓ X 9023
10.31 O d 10.31

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent

Var № 2 Dec. 23 '98 A.J.B.

X 9024
12.72 Ol 12.72

X 9216
14.41 Ot (± v. faint) : 14.41

X 9073
14.00 Or ± 14.00

X 9066
13.80 Oq 13.80

X 9064
13.67 Op 13.67

X 9074
14.20 O sv 14.20

X 9271
13.80 <q <13.80

X 9072
13.47 ✓ 02.1f 13.67 13.07 = 13.62 .00 .05
13.07 13.67

X 9026
12.40 ✓ K 2.1 l 12.60 12.62 = 12.64 .01 .02
12.62 12.72

X 9027
12.45 ✓ K 2.1 l 12.60 12.62 = 12.64 .01 .02
12.72

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9062
O r
18.67 13.67

X9023
K1.1l
12.48 12.65 12.62 = 12.58 .03 .04
12.62 12.72

X9075
Oq
13.80 13.80

X9071
Or ±
14.00 14.00

X9021
K1.1l
12.48 12.65 12.62 = 12.58 .03 .04
12.62 12.72

X9022
K1.1l
12.48 12.65 12.62 = 12.58 .03 .04
12.62 12.72

X9065
Oq
13.80 13.80

X9020
K1.1l
12.48 12.65 12.62 = 12.58 .03 .04
12.62 12.72

X9025
K2.1l
12.48 12.65 12.62 = 12.64 .01 .02
12.62 12.72

X9305
<q
13.80 <13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 9069

✓ 13.67 Op ± 13.67

X 9068

✓ 13.80 Oq ± 13.80

X 9067

✓13.80 Oq ± 13.80

X 9063

✓13.67 p1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ X 9070

13.80 Oq 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

w Cnt

Var W 3 Dec 23 '98 plb

✓ X9070
13.47 00 ± 13.47

✓ X9063
13.00 m1.1n 13.10 13.20 = 13.18 .00 .00
13.210 13.30

X9067
✓ 13.47 01.2 n 13.07 13.47 = 13.42 .00 .05
13.47 13.67

X9068
✓ 13.47 01.1 n 13.57 13.07 = 13.07 ~~00~~ ~~00~~
13.57 13.67

X9069
✓ 13.67 01 n ± 13.67

X9305
✓ 13.47 00 (:) 13.47

X9025
✓ 13.30 m1.10 (:) 13.40 13.37 = 13.38 .02 .01
13.37 13.47

X9020
✓ 13.30 m1.20 ± 13.40 13.27 = 13.34 .06 .07
13.27 13.47

X9065
✓ 13.67 01 n 13.67

✓ X9022
13.20 m1.1 n 13.10 13.20 = 13.15 .05 .05

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 9021

✓13.00 m. 1, 2 m 13.10 13.10 = 13.10 00 00

13.10 13.30

X 9071

13.✓30 m 1, 20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X 9075-

13✓.30 m 1.1 h* ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X 9023

✓13.00 m 2, 1 m 13.20 13.20 = 13.20 00 00

13.20 13.30

X 9062

✓13.00 m 2, 1 m ± 13.20 13.20 = 13.20 00 00

13.20 13.30

✓ X 9027

13.47 0 o ± 13.47

X 9026

✓13.30 0 m ± 13.30

X 9072

✓13.47 02.1 h 13.67 13.57 = 13.62 .05 .05

13.57 18.67

✓ X 9271

13.67 0 h 3) 13.67

X 9074

✓13.67 0 h ± 13.67 * Assum. 1σ for σ

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9064

✓ 13.00 mli lm 13.10 13.20 = 13.15 − .05 − .05

13.20 13.30

X9066

✓ 13.47 Oo ± 13.47

X9073

✓ 13.67 Op ± 13.67

X9216

✓ 13.80 Oq ± 13.80

X9024

✓ 13.90 On 13.90

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Var Int - Dec. 24. 98 H.B.

X 9066
13.V80 Oq 13.80

X 9024
13.V67 pl. 1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9216
13.V47 Oo 13.47

X9064
13.V80 Oq ± 13.80

X9073
13.V47 Oo ± 13.47

X9271
13.V80 On 13.30

X9074
13.V47 O2, 1p 13.67 13.57 = 13.62 .05 .05
13.57 13.67
✓

X9026
14.00 Or 14.00

X 9072
13.V00 m 1, 2w 13.10 13.10 = 13.10 00 00
13.10 13.30

X 9027
14.V00 Or 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9062

13.47 02.1 p 13.67 13.57 = 13.62 .05 .05

13.57 13.67

X9023

13.80 0q ± 13.80

X9075

13.67 0p ii 13.67

X9071

13.00 0m 13.00

X9021

13.47 01.1 p ± 13.57 13.57 = 13.57 00 00

13.57 13.67

X9022

13.80 0q 13.80

X9065

14.00 0r 14.00

X9020

13.47 01.1 p 13.57 13.57 = 13.57 00 00

13.57 13.67

X9025

13.67 p1.1 q ± 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9305

13.80 q1, 2 r 13.90 13.80 = 13.85 .05 .05

13.80 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9069

13.80 q1.1n 13.90 13.90 = 13.90 ~~00 00~~

13.90 14.00

X9068

13.80 q1.1n 13.90 13.90 = 13.90 ~~00 00~~

13.90 14.00

X9067

14.00 0n 14.00

X9063

13.80 0q ± 13.80

X9070

13.60 0m 13.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent

Var NO 5-

Dec 24. '98 DB.

X9070

14.20 Os 14.20

X9063

14.20 s1, 2t 14.30 14.21 = 14.26 .04 .05-

14.21 14.41

X9067

13.00 Om 13.00

X9068

13.30 Om 13.30

X9069

13.67 Op 13.67

X9305-

13.86 q1, 2r 13.90 13.80 = 13.85- .05- .05-

13.80 14.00

X9025-

13.80 Oq ± 13.80

X9020

13.30 Om 13.30

X9065-

14.41 Ot 14.41

X9022

13.90 m 2, 1 o 13.80 18.87 = 13.44 .06 .07

13.87 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9021

13.V00 m1.1m 13.10 13.20 = 13.18⁻ .05⁻ .05⁻
13.20 13.30

X9071

14.V41 Ot 14.41

X9075⁻

13.V00 m1.1m 13.10 13.20 = 13.18⁻ .05⁻ .05⁻
13.20 13.30

X9023

13.V67 p1.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9062

14.V41 Ot 14.41

X9027

14.V20 Os 14.20

X9072

14.V00 .n1.1s 14.10 14.10 = 14.10 00 00
14.10 14.20

X9026

14.44 Ot ± 14.41

X9074

13.V60 m1.1m 13.10 13.20 = 13.18⁻ .05⁻ .05⁻
13.20 13.20

X9271

14.V00 Or ± 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9073

14.20 Os 14.20

✓ X9064

14.20 Os = 14.20

X9216

13.47 Oo 13.47

X9024

13.80 Og 13.80

X9066

13.00 ml, 2m 13.10 13.10 = 13.10 ~~oo~~ ~~oo~~

13.10 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

√Cut -

var No 6

HB - Jan 2 '99

x9063

13.00 0m 13.00

x9070

18.V00 ml. 3m 18.10 18.00 = 18.00 .00 .00

18.00 18.30

x9066

13.V00 ml. 2m 18.10 18.10 = 18.10 00 00

18.10 18.30

x9024

12.V92 l2.1m 12.92 12.90 = 12.91 .01 .01

12.90 13.00

x9216

12.V92 0l 12.92

x9064

13.V00 ml. 3m 18.10 18.00 = 18.00 .00 .00

13.00 18.30

x9073

13.V00 0m 13.00

x9271

13.V00 ml. 2m 18.10 18.10 = 18.10 00 00

18.10 18.30

x9074

13.V00 0m ± 13.00

x9026

12.V92 l2.1m 12.92 12.90 = 12.91 .01 .01

12.90 13.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9072
13.00 0 m 13.00

X9027
12.92 l 2.1 m 12.92 12.90 = 12.91 .01 .01
12.90 13.00

X9062
13.60 ml. 2 m ± 13.10 13.10 = 13.10 ~~00 00~~
13.10 13.30

X9023
12.92 l 2.1 m 12.92 12.90 = 12.91 .01 .01
12.90 13.00

X9075
✓
13.00 0 m 13.00

(X 6776 m 3.1 m) other emis by Whitelock

X9071
✓
13.00 ml, 2 m 13.10 13. 10 = 13.10 ~~00 00~~
13.10 13.30

X9021
12.92 l 2.1 m 12.92 12.90 = 12.91 .01 .01
12.90 13.00

X9022
12.92 l 2.1 m 12.92 12.90 = 12.91 .01 .01
12.90 13.00

X9065
✓
13.00 ml. 2 m 13.10 13.10 = 13.10 ~~00 00~~
13.10 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1999phae.proj.2285B

X9020

13.00 0m 13.00

X9025-

12.72 l 1.1m 12.82 12.90 = 12.86 .04 .04

12.90 13.00

X9305-

12.72 l 1.1m 12.82 12.90 = 12.86 .04 .04

12.90 13.00

X9069

13.00 0m ± 13.00

X9068

13.60 m l.1m ± 13.10 13.20 = 13.13 - .05 - .05

13.20 13.30

X9067

13.00 0m 13.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

98

aCent

Var No 7

ABL Jan 2 '99

X9067

13.80 qJ1.1n 13.90 13.90 = 13.90 ~~00~~ ~~00~~

13.90 14.00

X9068

13.67 n1.1q = 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9069

13.80 Oq = 13.80

X9305

13.80 Oq = 13.80

X9025

13.80 Oq = 13.80

X9020

14.00 On = 14.00

X9065

13.67 On = 13.67

X9020

13.80 Oq = 13.80

X9022

13.80 Oq = 13.80

✓ X9021

13.67 <n <13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae..proj..2285B

κ9071

14.00 R 1.1 S = 14.10 14.10 = 14.10 00 00

14.10 14.20

κ9075

12.92 R 2.1 M 12.92 12.90 = 12.91 .01 .01

12.90 13.00

κ9023

13.67 < P < 13.67

κ9062

13.67 P 1.1 Q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

κ9027

14.00 R 1.1 A 14.10 14.10 = 14.10 00 00

14.10 14.20

κ9072

14.00 O R 14.00

κ9026

14.00 R 1.1 S 14.10 14.10 = 14.10 00 00

14.10 1420

κ9074

13.47 O O = 13.47

κ9271

13.67 O P = 13.67

κ9073

13.80 Q 1.1 R = 13.90 13.90 = 13.90 00 00

13.90 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

100

X9064

13.80 Oq ± 13.80

X9216

14.00 ✓ r 1.1 r 14.10 14.10 = 14.10 ~~.00 .00~~

14.10 14.20

X9024

14.00 Or ± 14.00

X9066

13.80 q 1.2 r 13.90 13.80 = 13.80 - .05 - .05

13.80 14.00

X9070

14.00 Or 14.00

X9063

13.60 q 1.1 q 13.77 13.70 = 13.74 .03 .04

13.70 13.81

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

Cut

Var. No. 8

DLB Jan 2. '99

x9063

12.69 l² 1.3 m² 12.79 12.78 = 12.78 .01 .00

12.78 13.08

x9070

13.87 q² 1.1 r² 13.97 13.94 = 13.96 .01 .02

13.94 14.04

x9066

13.87 0 q² 13.87

x9024

12.69 l² 1.1 m² 12.79 12.98 = 12.88 .09 .10

12.98 13.08

x9216

14.20- 0 s² 14.20-

x9064

13.08 0 m² 13.08

x9073

13.82 m² 2.1 0² 13.92 13.41 = 13.46 .06 .00-

13.41 13.07

x9271

14.04 < r² < 14.04

x9074

13.87 0² 1.1 p² 13.61 13.0-0- = 13.08 .03 .03

13.0- 13.60-

x9026

13.60- 0 p² 13.60-

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

x9072

13.08 m² 1.1 m² 13.18 13.22 = 13.20 .01 .02

13.22 13.32

x9027

13.68⁻ f² 1.2 g² 13.78⁻ 13.67 = 13.71 .04 .04

13.67 13.87

x9062

14.04 O r² 14.04

x9023

12.69 l² 2.1 m² 12.89 12.98 = 12.94 .05⁻ .04

12.98 13.08

x9075

13.68⁻ f² 1.1 g² 13.78⁻ 13.77 = 13.76 .01 .01

13.78 13.88

x9071

12.69 l² 2.1 m² 12.89 12.98 = 12.94 .05⁻ .04

12.98 13.08

x9021

13.68⁻ < l² ∠13.68⁻

x9022

14.04 < r² ∠14.04

x9065⁻

13.32 O m² 13.32

x9020

14.04 O r² ± 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

X 9025-
O o²
13.57 13.57

X 9305-
O s² :.
14.23 14.23

X 9069
O r² ±
14.04 14.04

X 9068
O r⁻
14.04 14.04

X 9067
O q²
13.87 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent

Var. No 9

AJB - Jan 5 . 1899 .

✓ x9020
13.67 <h < 13.67

✓ x9067
13.00 Om 13.00

✓ x9068
13.00 m3.1m 13.30 13.20 = 13.20 .00 .00
13.20 13.30

x9069
✓ 13.30 Om ± 13.30

✓ x9305
13.80 Oq ± 13.80

x9025
✓ 13.00 m2.1m 13.20 13.20 = 13.20 ~~00 00~~
13.20 13.30

x9065
✓ 14.38 Ot' 14.38

x9022
✓ 14.38 Ot' ± 14.38

x9021
✓ 13.67 <h <13.67

x9071
✓ 14.38 t'1 14.48

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

x9075

13.00 m1,2 n 13.10 13.10 = 13.10 ~~00 00~~

13.10 13.30

x9023

✓ 13.80 <9r <13.80

x9062

✓ 13.67 Or = 13.67

x9027

✓ 13.47 Oo 13.47

x9072

✓ 14.38 Ot' 14.38

x9026

✓ 13.90 On = 13.90

x9074

✓ 14.38 t'2. 14.08

x9271

✓ 14.00 Or = 14.00

x9073

✓ 14.21 ~~E~~ Os' 14.21

x9064

✓ 14.38 t'2. 14.08

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2205B

✓ x9216
14.21 Os' ± 14.21

✓ x9024
13.80 Oq ± 13.80

x9066
13.67 O p 13.67

x9070
14.√38 Ot' 14.38

x9063
14.38 t'2. 14.38

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent -

Var № 10

HB - Jan. 5, '29

✓ x9063

13.30 On 13.30

✓ x9070

13.67 f 1.1 q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ x9066

13.80 0q 13.80

✓ x9024

13.47 Oo = 13.47

✓ x9216

13.47 Oo 13.47

✓ x9064

13.47 02.1 f 13.67 13.07 = 13.62 .05 .05

13.57 13.67

✓ x9073

13.47 02.1 f 13.67 13.57 = 13.62 .05 .05

13.57 13.67

✓ x9271

13.67 0f + 13.67

✓ x9074

13.47 o 2.1 f 13.67 13.57 = 13.62 .05 .05

13.57 13.67

✓ x9026

13.30 On 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22158

✓ X9072
13.30 0m 13.30

✓ X9027
13.47 0o 13.47

✓ X9062
13.30 0m 13.30

✓ X9023
13.67 0f 13.67

✓ X9075
13.80 0q 13.80

✓ X9071
13.47 o1, 2 f 13.67 13.47 = 13.52 .05 .03
13.47 13.67

✓ X9021
13.67 f1.1q = 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X9022
13.80 0q 13.80

✓ X9065
13.67 f1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X9025
13.30 m1, 1o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9305-
13.30 Om 13.30

✓ X9069
13.57 Oo ± 13.57

✓ X9068
13.80 Oq 13.80

✓ X9067
13.80 Oq 13.80

✓ X9020
13.67 Of ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Recent

Var No 11

HB. Jan. 6-99

✓ X9067
13.80 Oq ± 13.80

✓ X9020
13.30 m1.20 13.40 13.27 = 13.84 .06 .07
13.27 13.47

✓ X9068
13.67 p1.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X9069
13.67 Op ± 13.67

✓ X9300
13.80 Oq 13.80

✓ X9025
13.80 Oq 13.80

✓ X9065
13.30 Om 13.30

✓ X9022
13.00 m2.1m 13.20 13.20 = 13.20 ~~00 00~~
13.20 13.30

✓ X9021
13.00 m1.2m 13.10 13.10 = 13.10 ~~00 00~~
13.10 13.30

✓ X9071
14.00 Or ± 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9075

13.00 m2.1m 13.20 13.20 = 13.20 ~~.00 .00~~

13.20 13.30

X9023

✓

13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9062

✓

13.47 01,2p 13.57 13.47 = 13.52 .05⁻ .05⁻

13.47 13.67

X9027

✓

14.00 0r 14.00

✓ X9072

13.67 0p ± 13.67

✓ X9026

13.67 0p ± 13.67

✓ X9074

13.30 0n 13.30

✓ X9271

13.80 0q 13.80

✓ X9073

13.30 m1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X9064

13.00 m1.1m 13.10 13.20 = 13.15⁻ .05⁻ .00⁻

13.20 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9216

13.67 Or 13.67

X9024

13.47 Oo 13.47

X9066

13.47 Oo 13.47

X9070

13.80 ql.1r 13.90 13.90 = 13.90 ~~oo oo~~

13.90 14.00

X9063

13.30 Om 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cont.

Sur N° 12

ABJ- Jan. 6- '99

x9063

13.00 M 3.1 m 13.30 13.20 = 13.20 - .00 - .00

13.20 13.30

x9070

13.80 Oq 13.80

x9066

13.67 Op 13.67

x9024

13.47 Oo ± 13.47

x9216

13.67 Op ± 13.67

x9064

13.00 M 3.1 m 13.30 13.20 = 13.20 - .00 - .00

13.20 13.30

x9073

13.30 On 13.30

x9271

13.30 On ± 13.80

x9074

13.30 On ± 13.30

x9026

13.47 O1.1 p 13.47 13.47 = 13.47 00 00

13.47 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

9072
13.30 m 2.10 13.50 13.37 = 13.38 .02 .01
13.37 13.47.

9027
13.30 0m 13.30

9062
13.30 0m ± 13.30

9023
13.47 01.1 13.37 13.37 = 13.37 00 00
13.37 13.67

9075
13.00 m3.1m 13.30 13.20 = 13.20 .00 .00
13.20 13.30

9071
— (H:)

9021
13.30 0m ± 13.30

9022
13.47 0o 13.47

9065
13.30 m1.1o ± 13.40 13.37 = 13.38 .02 .01
13.37 13.47

9025
13.67 0p ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

9305-

13.30 m1.20 13.40 13.27 = 13.84 .06 .07

13.27 13.47

9069

—

9068

—

The star is difficult to measure on account of nebulous appearance. This appearance is probably due to two or more very close faint stars. The result is in either case too small. The effect is less on the best plates, especially of short exposures, when the nebulous effect nearly disappears.

9020

13.00 m3.1n 13.80 13.20 = 13.21 − .01 − .01

13.20 13.80

9067

13.47 01.1h 13.87 13.57 = 13.57 − .07

13.87 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22855

Cut

Var No. 13 - ADB - Jan 9 - 99

X9067

13.00 m 1, 2 m 13.10 13.10 = 13.10 00 00

13.10 13.30

X9020

13.00 m 3, 1 m 13.30 13.20 = 13.20 - .00 - .00

13.20 13.30

X9068

13.30 0 m 13.30

X9069

13.67 0 r ± 13.67

X9305

13.80 q 1, 1 r 13.90 13.90 = 13.90 00 00

13.90 14.00

X9025

X9065

12.72 0 l 12.72

X9022

13.00 0 m 13.00

X9021

13.00 0 m 13.00

X9071

13.80 q 1, 1 r ± 13.90 13.90 = 13.90 00 00

13.90 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ ×9075
13.80 Oq ± 13.80

✓ ×9023
13.00 m 2.1 m 13.30 13.20 = 13.25 .05 .05
13.20 13.30

✓ ×9062
14.20 r 1.1 s' 14.30 14.11 = 14.20 .10 .09
14.11 14.21

✓ ×9027
14.00 Or 14.00

✓ ×9072
13.64 pl.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ ×9026
13.64 pl.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ ×9074
13.80 Oq ± 13.80

✓ ×9271
12.72 l 1.1 m 12.82 12.90 = 12.86 .04 .04
12.90 13.00

✓ ×9073
14.00 Or ± 14.00

✓ ×9064
13.00 m 1.1 m 13.10 13.20 = 13.15 .05 .05
13.30 13.39

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22956B

✓ x9216
13.47 Oo 13.47

x9024
✓
13.00 m 3.1m 13.30 13.20 = 13.20 − .00 − .05
13.20 13.30

x9066
✓
12.72 N 2.1m 13.82 12.90 = 12.86 .04 .04
12.90 13.00

✓ x9070
14.00 Or 14.00

x9063
✓
14.21 Os 14.21

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1999phae.proj.2285B

Cut

San No. 14

A.J.B - Jan. 9 '99

✓ ×9063
13.32 0 m³ ± 13.32

✓ ×9070
13.69 f³ 1.1 q³ ± 13.79 13.80 = 13.80 .01 ~~00~~
13.80 13.90

✓ ×9066
13.69 0 f³ = 13.69

✓ ×9024
13.48 0 o³ + 13.48

✓ ×9216
13.90 0 q³ + 13.90

✓ ×9064
13.32 0 m³ 13.32

×9073
13.32 m³ 1.1 0³ 13.42 13.38 = 13.40 .02 .02
13.38 13.48

×9271
14.09 0 r³ + 14.09

✓ ×9074
13.32 0 m³ 13.32

✓ ×9026
13.48 0 o³ + 13.48

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ x9072
13.48 O³1.1μ³ ± 13.58 13.59 = 13.58 .00 .01
13.59 13.69

✓ x9027
13.69 Oμ³ ± 13.69

✓ x9062
13.48 Oo³ + 13.48

✓ x9023
13.69 μ³1.2q³ 13.79 13.70 = 13.74 .00 .00
13.70 13.90

✓ x9075
13.32 m³1.1o³ 13.42 13.38 = 13.40 .02 .02
13.38 13.48

✓ x9071
13.90 Oq³ + 13.90

✓ x9021
13.90 q³1.1n³ 14.06 13.99 = 14.00 .00 .01
13.99 14.09

✓ x9022
13.69 μ³1.1q³ 13.79 13.80 = 13.80 .01 .00
13.80 13.90

✓ x9065
13.48 Oo³ + 13.48

✓ x9025
13.69 Oμ³ ± 13.69

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ ∞9305

13.48 O_0^3 + 13.48

✓ ∞9069

13.90 Oq^3 + 13.90

∞9068

13.90 Oq^3 + 13.90

∞9020

13.90 Oq^3 + 13.90

∞9067

✓ 13.69 f^3 l: lq^3 + 13.79 13.80 = 13.80 · .01 .00

13.80 13.90

Radial Velocities —

Sequence star f^3 has the appearance of slight variability.
It also resembles r^5.
Sequence star O^3 is hazy and not a very good star —

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cent.

DIB - Jan 17-91

Var W= 15

X9062

13.30 Om (1) 13.30

X9027

13.80 Oq 13.80

X9072

13.67 Oh ± 13.67

X9026

13.30 m 2.10 (2) 13.3-0 13.37 = 13.44 .06 .07

13.37 13.47

X9074

13.67 Oh. ± 13.67

X9271

—

X9073

13.67 Oh ± 13.67

X9064

13.30 mb.10 ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9216

13.80 Oq 13.80

X9024

13.30 On 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9066
13.67 Oh ± 13.67

✓ X9063
13.00 m3.1n 13.30 13.20 = 13.20⁻ .00⁻ .00⁻
13.20 13.20

✓ X9070
13.80 Oq 13.80

✓ X9023
13.00 m3.1n 13.30 13.20 = 13.20⁻ .00⁻ .00⁻
13.20 13.30

✓ X9075
14.00 Or 14.00

✓ X9071
13.67 Oh ± 13.67

✓ X9021
13.00 m1.1n 13.10 13.20 = 13.10⁻ .00⁻ .00⁻
13.20 13.30

✓ X9022
13.00 m2.1n 13.20 13.20 = 13.20 00 00
13.20 13.30

✓ X9065
13.67 Oh ± 13.67

✓ X9025
13.67 Oh ± 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9305 –

13.80 Oq 13.80

✓ X9069

F –

✓ X9067

13.67 Op = 13.67

X9068

✓

13.67 Op 13.67

X9020

✓

13.00 mi. lm 13.10 13.20 = 13.10 .00 .00

13.20 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22858

Jan W. 16

MB - Jan. 17-99

x9020

13.63 0 π^2 ± 13.68

✓ x9068

14.04 0 π^2 ± 14.04

✓ x9067

✓ 13.63 π^2 1, 2 q^2 13.70 13.67 = 13.71 .04 .04

13.67 13.87

✓ x9069

—

x9306

✓ 13.87 q^2 1. 1 π^2 13.97 13.94 = 13.96 .01 .02

13.94 14.04

x9025

✓ 13.87 0 q^2 ± 13.87

x9065

✓ 13.32 π^2 1. 10 ^{2} 13.42 13.41 = 13.42 ~~.00~~ .01

13.41 13.81

✓ x9022

13.63 0 π^2 ± 13.68

x9021

✓ 13.87 0 q^2 ± 13.87

x9071

✓ 13.82 π^2 2, 10 ^{2} 13.02 13.41 = 13.46 .06 .00

13.41 13.51

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22855

✓ X9075

13.87 Oq^2 = 13.87

✓ X9023

—

✓ X9070

13.81 $O\sigma^2$ 13.81

✓ X9063

13.81 $O\sigma^2$ 13.81

✓ X9066

13.81 $O^2 1.2 p^2$ 13.61 13.41 = 13.81 3.08 .08

13.41 13.61

✓ X9024

13.87 $q^2 1.2 n^2$ 13.97 13.84 = 13.90 .07 .06

13.84 14.04

✓ X9216

13.61 Op^2 13.61

✓ X9064

13.32 $n^2 1.1 O^2$ 1342 13.41 = 13.42 00 .01

13.41 13.81

✓ X9073

13.81 $O\sigma^2$ 13.81

✓ X9271

13.87 Oq^2 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9074

13.60⁻ 0 h² + 13.60⁻

✓ X9026

13.57 o² 1.2 p² 13.61 13.43 = 13.53 .08 .08

13.43⁻ 13.60⁻

X9072

✓ 13.32 n² 1.2 o² 13.42 13.31 = 13.36 .06 .05⁻

13.31 13.57

X9027

✓ 13.32 0 n² 13.32 .

X9062

13.87 ✓ q² 1.2 n² 13.97 13.84 = 13.90 .07 .06

13.84 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent -

Jan 11 - 17

HB - Jan. 17, 59

✓ X9062

13.57 Oo² 13.61

✓ X9027

13.32 Om² ± 13.82

✓ X9072

13.65⁻ Of² ± 13.65⁻

✓ X9026

13.08 m2.1m² 13.28 13.22 = 13.25⁻ .03 .09

13.22 13.82

X9074

✓ 13.57 o1.2f² 13.61 13.40⁻ = 13.53 .08 .08

13.45⁻ 13.65⁻

X9271

✓ 13.87 Og² ± 13.87

✓ X9073

13.65⁻ Of² ± 13.65⁻

X9064

✓ 13.57 o1.2f² 13.61 13.40⁻ = 13.53 .08 .08

13.45⁻ 13.65⁻

X9216

✓ 13.32 m1.2o² 13.42 13.31 = 13.36 .06 .05⁻

13.31 13.61

✓ X9024

13.32 Om² 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9066

✓
13.51 00² 13.51

✓ X9063

13.51 0² 1.1 p² ± 13.61 13.55 = 13.58 .08 .08
13.55 13.60

X9070

✓
13.51 0² 1.1 p² 13.61 13.55 = 13.58 .08 .03
13.55 13.60

✓ X9023

13.08 m² 2.1 m² 13.28 · 13.22 = 13.25 .03 .03
13.22 13.32

✓ X9075

13.32 m² 1.1 0² 13.42 13.41 = 13.42 00 .01
13.41 13.51

✓ X9071

13.51 00² 13.51

✓ X9021

13.32 0 m² 13.32

X9022

✓
13.08 m² 3.1 m² 13.38 13.22 = 13.30 .08 .08
13.22 13.32

X9065

✓
13.51 0² 1.1 p² 13.61 13.55 = 13.58 .03 .03
13.55 13.60

✓ X9025

13.32 0 m² 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9305 —
13.51 Oo² 13.5-1

✓ X9069
(

✓ X9067
13.87 Oq² 13.87

✓ X9068
13.57 O-2.1 f² 13.71 13.0-0- = 13.63 .08 .08
13.5-0- 13.60-

✓ X9020
13.32 On² 13.92

This star Surely var.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22858

w Cent

Var No 18

AJD. Jan. 20 -

x 9025-

13.87 Oq² = 13.87

x 9020

14.04 < r² < 14.04

x 9068

14.20- Os² = 14.20-

x 9024

13.32 Omⁿ 13.32

x 9067

14.04 n²1.1s² 14.14 14.10 = 14.14 .00 .01

14.10- 14.20-

x 9069

14.04 Or² = 14.04

x 9065-

13.60- f²2.1q² 13.88- 13.77 = 13.81 .04 .04

13.77 13.87

x 9071

12.69 l²1.1m² 12.79 12.98 = 12.88 .09 .10

12.98- 13.08

x 9075-

13.87 Oo² = 13.87

x 9070

14.04 Or² 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ x9063
13.60 0 r² 13.60

✓ x9066
14.04 0 r² 14.04

✓ x9023
12.69 l² 3.1 m² 12.99 12.98 = 12.98 .01 ~~00~~
12.98 13.08

x9021
✓ 13.32 0 r² 13.32

x9022
✓ 12.69 l² 1.1 m² 12.79 12.98 = 12.88 .09 .10
12.98 13.08

✓ x9216
14.25 0 s² 14.25

x9064
✓ 13.87 ~~q 0 r~~ q² 1.2 r² 13.97 13.84 = 13.90 .07 .06
13.84 14.04

x9026
✓ 13.87 0 q² 13.87

x9073
✓ 13.08 0 m² 13.08

✓ x9074
13.32 0 r² 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9072

12.69 l 2.1 m² 12.89 12.98 = 12.94 .05 .04

12.98 13.08

✓ X9062

13.01 0 0² 13.01

X9027

✓ 13.87 0 q² ± 13.87

X9271

✓ 12.69 l 3.1 m² 12.99 12.98 = 12.98 .01 .00

12.98 13.08

X9305

✓ 13.32 0 n² 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Went

Var W19 A1B.. Jan. 20 –

✓ x9271

13.68 – λ^2 1.1 q^2 ± 13.78 – 13.77 = 13.76 .01 .01

13.77 13.87

✓ x9305 –

14.23 – $O\delta^2$ ± 14.28 –

✓ x9027

14.04 $O\pi^2$ ± 14.04

x9062

✓ 13.87 Oq^2 13.87

x9072

✓ 13.68 – $O\lambda^2$ 13.68 –

x9074

✓ 13.68 – $O\lambda^2$ ± 13.68 –

✓ x9073

–

✓ x9026

✓ 14.23 – $O\delta^2$. 14.28 –

x9064

✓ 14.04 $O\pi^2$ 14.04

✓ x9216

✓ 14.04 $O\pi^2$ 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ x9022
—

x9021
✓ 13.68⁻ O/r² ± 13.68⁻

x9023
✓ 13.87 Oq⁻ 13.87

✓ x9066
14.04 Or² ± 14.04

✓ x9063
13.87 Oq² 13.87

x9070
✓ 14.04 Os² 14.04

x9075⁻
✓ 13.87 Oq² ± 13.87

✓ x9071
14.04 r 2.1 s² 14.24 14.10⁻ = 14.20 .04 .08⁻
14.18⁻ 14.20⁻

x9065⁻
✓ 14.20⁻ Os² s¹ 14.20⁻

✓ x9069
—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9067

13.65 $p^2 1.1 q^2$ ± 13.75 13.77 = 13.76 .01 .01

13.77 13.84

X9024

✓ 13.84 $0q^2$ ± 13.84

X9068

✓ 13.51 $0^2 1.1 p$ 13.61 13.55 = 13.58 .03 .03

13.55 13.65

X9020

✓ 14.04 $0s^2$ ± 14.04

X9025

✓ 13.87 $0q$ ± 13.84

Changes in the star seem small + obtuse.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Went

A1B - Jan 20 - 99

Var No. 20

X9025-

✓ 13.82 0n² 13.82

X9020

✓ 14.04 0n² + 14.04

✓ X9068

14.46 0t² + 14.46

✓ X9024

✓ 14.04 0n² 14.04

X9067

✓ 14.28- n² 1.1 t² 14.38- 14.36 = 14.36 .01 .00

14.36 14.46

X9069

✓ 14.28- 0s² + 14.28-

X9065-

✓ 14.28- 0s² 14.28-

X9071

✓ 13.08 m² 1.1 m² 13.18 13.22 = 13.20 .02 .02

13.22 13.32

X9075-

✓ 13.87 0q² 13.87

X9070

✓ 13.08 m² 1.1 m² 13.18 13.22 = 13.20 .02 .02

13.22 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22158

✓ ×9063
13.87 Oq² 13.87

✓ ×9066
14.20⁻ ~~Oq~~ Os² 14.20⁻

✓ ×9023
13.87 Oq² 13.87

×9021
13.87✓ Oq² : 13.87

×9022
14.20⁻✓ Os² 14.20⁻

✓ ×9216
13.87 Oq² 13.87

/ ×9064
14.20⁻ Os² 14.20⁻

×9026
✓ 12.69 l²1.2m² 12.79 12.88 = 12.84 .05⁻ .04
12.88 13.08

×9073
✓ 13.51 o²1.1 m² 13.61 13.53 = 13.58 .09 .03
13.63⁻ 13.63⁻

✓ ×9074
13.63⁻ m²1.1q² 13.73⁻ 13.77 = 13.76 .01 .01
13.77 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ ✗9072
13.81 Oo^2 13.81

✓ ✗9062
13.87 q^2 l.l n^2 13.97 13.94 = 13.96 .01 .02
13.94 14.04
✓ ✗9027
13.08 Om^2 13.08

✗9305
✓
14.04 On^2 14.04

✗9271
13.32 Om^2 ± 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

√Cent

Var No 21

AB- Jun 23-99

X9271

13.00 Om 13.00

X9305

13.30 Om 13.30

X9027

13.00 m 2.1m 13.20 13.20 = 13.20 00 00

13.20 13.30

X9062

13.00 m 1.1m 13.10 13.20 = 13.1⁻ .00⁻ .00⁻

13.20 13.30

X9072

13.30 m 1.10 13.40 13.37 = 13.3⁻ .02 .01

13.37 13.47

X9074

13.30 Om ± 13.30

X9073

13.00 m 1.2m 13.10 13.10 = 13.10 00 00

13.10 13.30

X9026

13.30 Om 13.30

X9064

13.30 m 3.1m 13.30 13.20 = 13.2⁻ .00⁻ .00⁻

13.20 13.30

X9216

13.47 01.2f 13.37 13.47 = 13.0⁻ .00⁻ .00⁻

13.47 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X9022
13.67 Op 13.67

X9021
13.47 ol.1|r ± 13.57 13.57 = 13.57 ~~ ~~
13.57 13.67

X9023
13.67 Op 13.67

X9066
✓ 13.67 Op 13.67

X9063
13.00 ml, 2 m 13.10 13.10 = 13.10 ~~ ~~
13.10 13.80

X9070
13.47 Oo ± 13.47

X9075
✓ 13.30 ml.1o ± 13.40 13.37 = 13.38 .02 .01
13.87 13.47

X9071
✓ 13.30 Om 13.30

X9065
✓ 13.67 Op 13.67

X9069
✓ 13.67 Op 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ ✗9067

13.67 0/v 13.67

✗9024

✓ 13.47 01.1/v 13.37 13.37 = 13.37 ~~00~~ ~~00~~

13.37 13.67

✗9068

✓ 13.67 0/v 13.67

✗9020

13.✓30 m1.20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

✗9025

✓ 13.30 m1.10 ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

W Cent
Var. No. 22.

AJB. Jan. 23.

x9020
14.04 Or² ± 14.04

x9025
13.87 Oo² 13.87

x9068
13.87 Oo² 13.87

x9024
13.82 Om² 13.82

x9067
13.60 Op² ± 13.60

x9069
13.82 Om² ± 13.82

x9065
13.87 Oq² 13.87

x9071
13.87 Oo² 13.87

x9075
13.87 Oo² ± 13.87

x9070
13.87 O²1.1 p² ± 13.61 13.85 = 13.88 .03 .03
13.85 13.88

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9063

13.66 $b^2 1.2 q^2$ ± 13.70 13.67 = 13.71 .04 .04

13.67 13.87

X9066

14.04 $O r^2$ ± 14.04

X9023

13.87 $o^2 1.1 b^-$ ± 13.61 13.8-8- = 13.8-8 .03 .03

13.83 13.68-

X9021

13.87 $O q^2$ ± 13.87

X9022

13.82 $n^2 2.1 o^2$ 13.82 13.41 = 13.46 .06 .08-

13.41 13.87

X9216

13.81 $O o^2$ 13.81

X9064

13.65 $b^2 1.1 q^2$ 13.70 13.77 = 13.76 .01 .01

13.77 13.87

X9026

13.87 $O q^2$ 13.87

X9073

13.87 $O o^2$ 13.81

X907+

13.87 $O o^2$ 13.81

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

x9072

✓ 13.82 n² 3.1 o² 13.62 13.41 = 13.0⁻2 .10 .11

13.41 13.0⁻1

x9062

✓ 13.60⁻ p² 1, 2 q² 13.70⁻ 13.67 = 13.71 .04 .04

13.67 13.87

x9027

✓ 13.60⁻ 0 p² 13.60⁻

x9305⁻

✓ 13.87 0 q² 13.87

x9271

✓ 13.0⁻1 0·1.1 p² ± 13.61 13.0⁻0⁻ = 13.0⁻8 .09 .03

13.03⁻ 13.60⁻

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cont.

Var No 2 ~~& 3~~ dlB. Jan. 23. 99

x9271

13.67 Op (:) 13.67

14.00 x9305 14.00
Or =

x9027

14.20 Os = 14.20

x9062

13.00 ~~[illegible]~~ m 2.1m 13.20 13.20 = 13.20 ~~00 00~~

13.20 13.30

x9072

13.80 Oq = 13.80

x9074

14.20 Os = 14.20

x9073

14.20 Os = 14.20

x9026

14.20 Os 14.20

x9064

14.00 Or 14.00

x9216

14.00 Or 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae..proj.2285B

X9022
13.67 Of + 13.67

X9021
13.30 nl.1o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

X9023
13.67 Of + 13.67

X9066
14.00 nl.1s 14.10 14.10 = 14.10 ~~00~~ ~~00~~
14.10 14.20

X9063
13.30 Om + 13.30

X9070
13.30 Om 13.30

X9075
14.41 Ot + 14.41

X9071
13.67 Of 13.67

X9065
13.80 Oq 13.80

X9069
14.20 Os + 14.20

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ ~~X~~9067

14.20 ≈1.1t 14.30 14.31 = 14.30 ~~.00~~ .01

14.31 14.41

✓ X9024

13.80 Oq ± 13.80

✓ X9068

14.00 ≈1.1≈ ± 14.10 14.10 = 14.10 ~~00 00~~

14.10 14.20

✓ X9025

14.00 Or ± 14.00

X9020

✓ 13.30 Om 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

W Cust

Var W-24

DB2-Jan 30-99-

X 9020

13.87 Oo² 13.87

X 9025-

✓ 14.04 Or² ± 14.04

✓ X 9068

—

X 9024

✓ 13.68- Of² ± 13.68-

X 9067

✓ 13.87 Oo² ± 13.87

✓ X 9069

—

X 9065-

✓ 13.32 n²1, 1o² 13.42 13.41 = 13.42 00 .01

13.41 13.87

X 9071

✓ 13.87 Oo² ± 13.87

X 9075-

✓ 13.68- p²2, q² 13.88- 13.87 = 13.86 .01 .01

13.87 13.87

X 9070

✓ 13.68- Of² ± 13.68-

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9063
13.6σ⁻ Oμ² ± 13.6σ⁻

X9066
✓ 13.32 Nμ 1.1σ² 13.42 13.41 = 13.42 σσ .01
13.41 13.σ⁻¹

X9023
✓ 13.σ⁻¹ Oμ 1.1μ² 13.61 13.σ⁻σ⁻ = 13.σ8 .03 .03
13.σ3⁻ 13.6σ⁻

X9021
✓ 13.σ⁻¹ Oμ 1.2μ² ± 13.61 13.4σ ≡ 13.σ3 .08 .08
13.4σ⁻ 13.6σ⁻

X9022
✓ 13.σ⁻¹ Oμ 1.1μ² ± 13.61 13.σ⁻σ⁻ = 13.σ8 .03 .03
13.σσ⁻ 13.6σ⁻

X9216
✓ 13.σ⁻¹ Oμ 1.2μ² 13.61 13.4σ ≡ 13.σ3 .08 .08
13.4σ⁻ 13.6σ⁻

X9064
✓ 13.σ⁻¹ Oμ 1.1μ² ± 13.61 13.σ⁻σ⁻ = 13.σ⁻8 .03 .03
13.σ3⁻ 13.6σ⁻

X9026
✓ 13.8⁻¹ Oq² ± 13.87

X9073
✓ 13.σ⁻¹ Oσ² 13.σ⁻¹

✓ X9074

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X9072

13.82 m² 2.10² 18.52 13.41 = 13.46 .06 .05⁻

13.41 18.51

✓ X9062

13.87 0g² 13.87

X9027

✓ 13.65⁻ f₂² 1, 2g² 13.75⁻ 13.67 = 13.71 .04 .04

13.67 13.87

✓ X9305⁻

13.32 0m² 13.82

X9271

✓ 13.60⁻ 0f² (3) 13.65⁻

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent

Var: M: 25

VB. Jan 30 -

✓ X9271

✓ X9300

X9027

✓
13.47 Oo = 13.47

X9062

✓
14.20 s1.1t = 14.30 14.21 = 14.30.00 .01

14.31 14.41

X9072

✓
14.20 Os = 14.20

X9074

✓
14.20 Os = 14.20

X9073

✓
14.00 n1.1s. = 14.10 14.10 = 14.10 00 00

14.10 14.20

X9026

✓
13.80 q1.1n = 13.90 13.90 = 13.90 00 00

13.90 14.00

X9064

13.67 h1.1q 13.77 13.70 = 13.74.03_04

13.70 13.80

X9216

✓
13.47 O1.1h 13.57 13.57 = 13.57 00 00

13.54 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ ✗9022
13.80 Oq + 13.80

✓ ✗9021
—

✗9023
✓
14.00 Or + 14.00

✓ ✗9066
13.00 m1.1n 13.10 13.20 = 13.13⁻ .05⁻ .05⁻
13.20 13.30

✗9063
✓
14.20 s1.1t + 14.30 14.31 = 14.30 00 00
14.31 14.41

✗9070
✓
14.20 Os 14.20

✓ ✗9075⁻
—

✗9071
✓
14.20 Os 14.20

✗9065⁻
✓13.00 m2.1n 13.20 13.20 = 13.20 00 00
13.20 13.30

✓ ✗9069
—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

c9067

v
13.30 n1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

c9024

v
13.80 0q ± 13.80

c9068

v
13.47 Oo 13.47

c9025

v —

Y9020

v
13.87 ~~0111~~ 01.1 13.61 18.88 = 13.58 .03 .03
13.58 — 13.68 —

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

Var. W Cent AJB. Jan 31 -

Var. W = 26

X9020

✓
13.30 m 1.20 13.40 13.27 = 13.34 .06 .07
13.27 13.47

X9025 -

✓
13.80 Oq ± 13.80

X9068

✓
13.80 Oq ± 13.80

X9024

✓
13.51 O 1.2 p 13.61 13.43 = 13.53 .08 .08
13.43 - 13.63 -

X9067

13.80 q 1.1 r 13.90 13.90 = 13.90 ~~ ~~
13.90 14.00

X9069

✓
—

Y9065 -

d
13.67 p 1.1 q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9071

✓
13.80 q 1 r 1 r 13.90 13.90 = 13.90 ~~ ~~
13.90 14.00

X9075 -

✓
14.00 O r 14.00

X9070

✓
13.47 O o 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22855B

X9063

13.67 μ1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9066

13.80 q1.2r 13.90 13.80 = 13.80⁻ .00⁻ .00⁻

13.80 14.00

X9023

13.67 0μ 13.67

X9021

13.47 0o = 13.47

X9022

13.47 o1.2μ = 13.67 13.47 = 13.82 .00⁻ .00⁻

13.47 13.67

X9216

13.80 0q = 13.80

X9064

13.67 0μ = 13.67

X9026

13.67 μ1.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9073

14.00 r1.1s 14.10 14.10 = 14.10 00 00

14.10 14.20

X9074

14.20 0s 14.20

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ x9072
14.00 Or 14.00

✓ x9062
13.67 Or 13.67

✓ x9027
14.00 Or ± 14.00

x9305-
✓
13.30 Or 13.30

✓ x9271
—

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

w Cent

AJB. for Feb. 1 9 1

var Nº 27

X9271

13.47 Oo = 13.47

X9305

13.80 ql. lr 13.90 13.90 = 13.90 ~~00 00~~

13.90 14.00

X9027

13.47 Oo = 13.47

X9062

14.00 Or = 14.00

X9072

13.30 ml, 20 13.40 13.27 = 13.34 .06 .07

13.27 13.47

X9074

14.00 Or = 14.00

X9073

13.67 Or = 13.67

X9026

14.00 Or 14.00

X9064

14.20 Os = 14.20

X9216

13.80 Oq = 13.81

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9022
14.00 Or 14.00

✓ X9021
13.80 Oq ± 13.80

✓ X9023
13.80 Oq ± 13.80

✓ X9066
14.00 Or 14.00

✓ X9063
14.00 Or 14.00

✓ X9070
14.20 Os 14.20

✓ X9075
14.00 Or 14.00

✓ X9071
14.20 Os 14.20

✓ X9065
14.20 Os 14.20

✓ X9069

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9067

✓ 14.00 rl.1s 14.10 14.10 = 14.10 ~~oo oo~~

14.10 14.20

X9024

✓ 14.00 Or 14.00

X9068

✓ 14.20 Os ± 14.20

X9025

✓ 14.00 Or ± 14.00

X9020

✓ 13.80 gl.1r ± 13.90 13.90 = 13.90 ~~oo oo~~

13.90 14.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Var. N° ~~28~~ 29 — Cent. — HB. Feb. 1.

X9020

11.74	~~f~~ g 3.1 h	12.04	12.07 = 12.06 .02 .01
12.07		12.17	

X9025

✓ 11.74	g 4.1 h	12.14	12.07 = 12.10 .04 .03
12.07		12.17	

X9068

✓ 11.18	f 3.1 g	11.48	11.64 = 11.56 .08 .08
11.64		11.74	

X9024

✓ 12.17	0 h	12.17	

X9067

✓ 11.18	f 3.2 g	11.48	11.54 = 11.51 .03 .03
11.54		11.74	

X9069

✓ 11.18	f 3.2 g	11.48	11.54 = 11.51 .03 .03
11.54		11.74	

X9065

✓ 11.74	0 g	11.74	

X9071

✓ 11.18	f 1.1 g	11.28	11.64 = 11.46 = .18 .18
11.64		11.74	

X9075

✓ 11.18	f 3.2 g	11.48	11.54 = 11.51 .03 .03
11.54		11.74	

X9070

✓ 11.18	f 1.1 g	11.28	11.64 = 11.46 .18 .18
11.64		11.74	

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9064 3

11.18 ✓ f1.1q 11.28 11.64 = 11.46 .18 .18
11.64 11.74

X9066

11.18 ✓ f2.1q 11.38 11.64 = 11.61 .13 .13
11.64 11.74

X9023

12.17 ✓ h1.2k 12.27 12.25 = 12.26 .01 .01
12.25 12.48

X9021

11.74 ✓ q4.1h 12.14 12.07 = 12.10 .04 .03
12.07 12.17

X9022

12.17 0h 12.17

X9216

11.18 ✓ f1.1q 11.28 11.64 = 11.46 .18 .18
11.64 11.74

X9064

11.18 ✓ f4.1q 11.58 11.64 = 11.61 .03 .03
11.64 11.74

X9026

12.17 ✓ 0h 12.17

X9073

11.18 ✓ f3.1q 11.48 11.64 = 11.56 .08 .08
11.64 11.74

X9074

N.18 ✓ f3.1q 11.48 11.64 = 11.56 .08 .08
11.64 11.74

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9072

✓ 11.18 f1.1g 11.28 11.64 = 11.46 .08 .08

11.64 11.74

~~X~~ X9062

✓ 11.74 0g 11.74

X9027

✓ 12.17 0h 12.17

X9305

✓ 11.18 f1.4g 11.28 11.84 = 11.31 .03 .03

11.34 11.74

X9271

✓ 12.17 0h 12.17

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cent -
Var. № 30 - D1B. Feb. 2

✓ X9271
13.47 Oo ± 13.47

X9305 -
✓ 13.47 ~~O~~ o1. t/r 13.67 13.67 = 13.67 00 00
13.67 13.67

X9027
✓ 13.00 m 2.1n 13.20 13.20 = 13.20 00 00
13.20 13.30

X9062
✓ 13.67 f1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9072
✓ 13.80 Oq ± 13.80

X9074
✓ 14.20 O5 ± 14.20

X9073
✓ 13.80 Oq ± 13.80

X9026
✓ 13.30 On 13.80

X9064
✓ 13.67 Op ± 13.67

X9216
✓ 13.30 n1.1o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae..proj.2285B

X9022

✓ 13.80 Oq ± 13.80

X9021

18.67 pl.1q ± 13.77 13.70 = 13.74 .03 .04

18.70 13.80

X9023

✓ 13.47 Oo ± 13.47

✓ X9066

13.00 m3.1n 13.30 13.20 = 13.20⁻ .00⁻ .00⁻

13.20 13.30

X9063

✓

13.47 01.2p 13.67 13.47 = 13.62 .03⁻ .00⁻

13.47 13.67

X9070

✓ 13.80 n1.1o ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9075

✓ 14.00 Or ± 14.00

X9071

✓ 13.80 n2.1o 13.60 13.37 = 13.44 .06 .07

13.37 13.47

X9065⁻

✓ 13.47 Oo ± 13.47

X9069

✓

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9067

13.00 m 3.1 m 13.30 13.20 = 13.20 − .00 − .00 −
13.20 13.30

X9024

13.47 01.1 − 13.07 13.07 = 13.07 00 00
13.07 13.67

X9068

13.32 0 m 13.87 0

X9025 −

—

X9020

13.30 0 m 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

a Cent

Var W. 32 -

H.B. Feb. 6.

X9020

13.67 pl.1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ X9025-

13.67 Op ± 13.67

✓ X9068

13.47 Oo 13.47

X9024

✓13.00 m l.1 n 13.10 13.20 = 13.15 .05 .05

13.20 13.30

X9067

✓13.80 Oq 13.80

✓ X9069

13.47 ol.1 p ± 13.57 13.57 = 13.57 00 00

13.57 13.67

✓ X9065-

13.67 p2.1q 13.87 13.70 = 13.78 .09 .08

13.70 13.80

✓ X9071

12.72 Ol 12.72

✓ X9075-

13.30 n l.1 o ± 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X9070

12.72 Ol 12.72

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9063

v

13.67 p2.1q 13.87 13.70 = 13.78 .09 .08

13.70 13.80

v X9066

13.67 0p 13.67

v X9023

13.00 0m 13.00

v X9021

12.72 p1.2m 12.82 12.80 = 12.81 .01 .01

12.80 13.00

v X9022

12.72 p1.2m 12.82 12.80 = 12.81 .01 .01

12.80 13.00

v X9216

12.72 p1.1m 12.82 12.90 = 12.86 .04 .04

12.90 13.00

v X9064

13.80 0q 13.80

v X9026

13.47 0o 13.47

✓ X9073

13.30 0m 13.30

v X9074

13.30 0m 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9072

13.00 m 1.2 m 13.10 13.10 = 13.10 ~~00 00~~

13.10 13.30

✓ X9062

13.47 0 1.1 1 v 13.07 13.07 = 13.07 ~~00 00~~

13.07 13.67

✓ X9027

13.30 m 2.10 13.30 13.37 = 13.44.06 .07

13.37 13.47

✓ X9305-

13.47 0 1.1 1 v + 13.07 13.07 = 13.07 ~~00 00~~

13.07 13.67

✓ X9271

13.47 Oo + 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Cont.

Var No 33.

DAB - Feb 4 6 -

✓ X9271

13.67 Op ± 13.67

✓ X9305

14.00 Or ± 14.00

✓ X9027

13.30 m 2.1 o 13.30 13.37 = 13.44 .06 .07

13.37 13.47

✓ X9062

13.47 Oo 13.47

✓ X9072

13.00 m 1.2 m 13.10 13.10 = 13.10 00 00

13.10 13.30

✓ X9074

13.67 Op ± 13.67

✓ X9073

13.00 m 3.1 m 13.30 13.20 = 13.20 .00 .00

13.20 13.30

✓ X9026

13.00 m 2.1 m 13.20 13.20 = 13.20 00 00

13.20 13.30

✓ X9064

13.80 Oq 13.80

✓ X9216

13.00 m 1.1 m 13.10 13.20 = 13.10 .08 .05

13.20 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1999phac.proj.22055

✓ X9022

13.80 <9 < 13.80

✓ X9021

13.67 <r < 13.67

✓ X9023

13.67 Or 13.67

✓ X9066

14.00 Or 14.00

✓ X9063

13.67 r 2.1 9 13.87 13.70 = 13.78 .09 .08

13.70 13.80

X9070

✓ 13.00 m 3.1 m 13.30 13.20 = 13.25 .05 .05

13.20 13.30

✓ X9075

13.80 Oq ± 13.80

✓ X9071

13.00 Om 13.00

✓ X9065

13.80 · q 1.1 r 13.90 13.90 = 13.90 .00 .00

13.90 14.00

✓ X9069

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9067

14.00 Or 14.00

✓ X9024

12.72 k 2.1 m 12.92 12.90 = 12.91 .01 .01

12.90 18.00

✓ X9068

13.80 Oq ± 13.80

✓ X9025 –

13.00 m 2.1 m 13.20 13.20 = 13.20 ~~00~~ ~~00~~

13.20 18.30

X9020

13.67 < k < 13.67

Sequence class m, and o occasionally show signs of small variability –

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1899phae.proj.2205B

√Cent-

√ar- N°-34

Alb. Feb. 7. '99

✓ X9020

13.08⁻ m^3 2. $|n^2$ 13.28⁻ 13.22 = 13.24 .01 .02

13.22 13.32

X9025⁻ μ^3, q^3 one or both short

✓13.69 μ^3 1. $|q^3$ ± 13.79 13.80 = ✓13.80 .01 ~~00~~

13.80 13.90

X9068

✓

13.48 0^3 1. $|\mu^3$ ± 13.58 13.59 = 13.58 ~~00~~ .01

13.59 13.69

X9024

✓13.69 $0|\mu^3$ ± 13.69

X9067

✓

13.69 $0|\mu^3$ 13.69

X9069

✓

13.48 00^3 ± 13.48

X9065⁻

✓

13.69 μ^3 1. 2 q^3 13.79 13.70 = 13.74 .05⁻ .04

13.70 13.90

X9071

✓13.90 q^3 1. $|\pi^3$ 14.00 13.99 = 14.00 ~~00~~ .01

13.99 14.09

X9075⁻

✓

13.90 $0q^3$ ± 13.90

X9070

✓

13.90 $0q^3$ ± 13.90

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.22058

X9063

13.03 m³ 3,1 n³ 13.83 13.22 = 13.28 .07 .06
13.22 13.82

X9066

13.69 0 p³ ± 13.69

X9023

13.69 p³ 2,1 q³ 13.89 13.80 = 13.84 .03 .04
13.80 13.90

X9021

13.32 0 n³ 13.32

X9022

13.48 0 1,1 p³ 13.58 13.59 = 13.58 .00 .01
13.59 13.69

X9216

13.90 0 q³ 13.90

X9064

13.82 0 n³ 13.82

X9026

13.90 0 q³ ± 13.90

X9073

13.90 q³ 1,2 n³ 14.00 13.89 = 13.94 .06 .03
13.89 14.09

X9074

13.90 q³ 1,1 n³ ± 14.00 13.99 = 14.00 .00 .01
13.99 14.09

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.:2285B

✓ X9072
14.09 Or³ 14.09

✓ X9062
13.08 — m³ 3.1 m³ 13.35 — 13.22 = 13.28 .07 .06
13.22 13.82

✓ X9027
14.09 Or³ 14.09

✓ X9305 —
13.08 — m³ 2.1 m³ 13.25 — 13.22 = 13.24 .01 .02
13.22 13.82

✓ X9271
14.09 Or³ + 14.09

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Cent -

Var No 35 -

1912. Feb. 7.

X9271

✓ 13.80 gl.1r + 13.90 13.90 = 13.90 ~~.00 .00~~

13.90 14.00

X9305 -

✓ 13.80 rl.1o + 13.40 13.37 = 13.38 .02 .01

13.37 13.47

✓ X9027

13.67 pl.1q + 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9062

✓ 14.00 0r + 14.00

X9072

✓ 13.47 02.1r 13.67 13.57 = 13.62 .03 -.05 -

13.57 13.67

X9074

✓ 13.80 0q + 13.80

✓ X9073

13.67 0r + 13.67

X9026

✓ 13.30 0m 13.30

X9064

✓ 14.00 0r 14.00

✓ X9216

13.30 0m 13.30

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ X9022
13.80 Oq ± 13.80

✓ X9021
13.80 Oq ± 13.80

✓ X9023
13.47 Oo ± 13.47

✓ X9066
13.47 Ol.1/2 13.57 13.57 = 13.57 00 00
13.57 13.67

X9063
✓
13.67 ~1.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9070
✓
13.30 m1.1o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

✓ X9075-
14.20 Os ± 14.20

✓ X9071
13.67 O~ 13.67

✓ X9065-
13.67 ~1.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

✓ X9069

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2295B

X9067

13.30 On 13.30

X9024

13.30 n2.10 13.30 13.37 = 13.44 .06 .07

13.37 13.47

X9068

13.00 n3.1n 13.30 13.20 = 13.28 -.08 -.05

13.20 13.30

X9025

13.30 n1.10 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9020

13.80 Oq + 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

W Cent

Var № 36.

NB - Feb 5 -

✓ X9020

13.80 Og = 13.80

✓ X9025-

13.67 Ok = 13.67

X9068

✓

13.30 Nl.lo = 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9024

✓

13.30 On 13.30

X9067

✓ 13.30 Nl.lo = 13.40 13.37 = 13.38 .02 .01

13.37 13.47

X9069

✓

13.67 Ok = 13.67

X9065-

✓

13.47 Oo = 13.47

X9071

✓

13.67 Nl.lq 13.77 13.70 = 13.74 .03 .04

13.70 13.80

X9075-

✓

13.47 Oo = 13.47

X9070

✓

13.67 Ok 61 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

10280

X9063
✓ 13.67 pl.1q 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9066
✓ 13.00 m 3.1m 13.30 13.20 = 13.20⁻ .00⁻ .00⁻
13.20 13.30

X9023
✓ 13.30 m1.1o 13.40 13.37 = 13.38 .02 .01
13.37 13.47

X9021
13.67 pl.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

X9022
✓ 13.30 m2.1o 13.40 13.37 = 13.44 .06 .07
13.37 13.47

X9216
✓ 13.67 0p 13.67

X9064
✓ 13.47 01.1p 13.87⁻ 13.67⁻ = 13.67⁻ 00 00
13.67⁻ 13.67

X9026
✓ 13.67 0p 13.67

X9073
✓ 13.80 0q 13.80

X9074
✓ 13.67 pl.1q ± 13.77 13.70 = 13.74 .03 .04
13.70 13.80

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj.2285B

✓ ✗9072

13.67 M1 1q 13.77 13.70 = 13.74 .03 .04

13.70 13.80

✓ ✗9062

13.80 0q 13.80

✗9027

13.80 0q dl 13.80

✓ ✗9300

13.30 0m ± 13.30

✓ ✗9271

13.30 0m ± 13.30

Star is distant from Sequence

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

w Cant - A1B. Tab 5 -

Var N - 38

X 9271

✓ 14.09 ~~9~~ ± Or³ ± 14.09

X 9305

✓ 14.09 Or³ ± 14.09

X 9027

✓ 14.32 S³ 1.1 t³ 14.42 14.48 = 14.48 - .03 .03

14.48 14.48

X 9062

✓ 14.09 Or³ 14.09

X 9072

✓ 13.48 O³ 1.1 V³ 13.48 13.59 = 13.48 .00 .01

13.59 13.69

X 9074

✓ 13.69 O V³ 13.69

X 9073

✓ 13.48 O O³ 13.48

X 9026

14.09 Or³ 14.09

X 9064

✓ 14.32 S³ 1.1 t³ 14.42 14.48 = 14.48 - .03 .03

14.48 14.48

X 9216

✓ 13.90 O9³ 13.90

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9022

14.09 Or^3 14.09

X9021

✓

14.09 Or^3 + 14.09

X9023

✓

14.09 Or^3 + 14.09

X9066

✓

13.69 $p^3 1.1 q^3$ 13.79 13.70 = 13.74 .05 .04

13.70 13.80

X9063

✓

14.09 Or^3 14.09

X9070

✓

13.82 Om^3 13.82

X9075

✓

13.69 $p^3 1.1 q^3$ 13.79 13.80 = 13.80 01 00

13.80 13.90

X9071

✓

13.00 $m^3 3.1 n^3$ 13.88 13.22 = 13.28 .07 .06

13.22 13.82

X9066

✓

13.69 $p^3 3.1 q^3$ 13.99 13.80 = 13.90 .09 .10

13.80 13.90

X9069

✓

13.82 $m^3 1.2 0^3$ 13.42 13.28 = 13.35 .07 .07

13.28 13.48

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9067

V
13.48 O³1.1|2³ 13.58 13.59 = 13.58 00 .01
13.59 13.69

X9024

14.32 O8³ ± 14.32

X9068

V
13.32 M³1.|0³ 13.42 13.38 = 13.40 .02 .02
13.38 13.48

X9025

V
14.09 O2³ ± 14.09

O9020

14.09 O2³ ± 14.09

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Sun No. 39 w Cent - DB-5469 -

X 9020

X 9025

13.82 m² 1.20² 13.42 13.81 = 13.86 .06 .05

13.81 13.81

X 9068

13.82 m² 3.10² 13.62 13.41 = 13.52 .10 .11

13.41 13.51

X 9024

13.51 0² 1.2 μ² 13.61 13.40 = 13.53 .08 .08

13.40 13.60

X 9067

13.32 0 m² (?) 13.32

X 9069

X 9065

13.60 μ² 1.1 q² 13.70 13.77 = 13.76 .01 .01

13.77 13.87

X 9071

13.82 0 m² ± 13.32

X 9075

13.84 0 q² 13.84

X 9070

13.32 0 m² 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9063
13.87 Oq² 13.87

X9066
13.87 Oo² 13.87

X9023
13.68 Op² 13.68

X9021
13.65 < p² < 13.68

X9022
14.04 On² 14.04

X9216
13.32 m¹1.1o² 13.42 13.41 = 13.42 .00 .01
13.41 13.87

X9064
13.87 Oq² 13.87

X9026
13.87 Oo² 13.87

X9073
13.68 Op² 13.68

X9074
13.68 p²1.2q² 13.75 13.67 = 13.71 .04 .04
13.67 13.87

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ 13.3-1 λ9072 O0² 13.3-1

✓ 13.87 λ9062 O9² ± 13.87

✓ 13.6δ⁻ λ9027 Oμ² ± 13.6δ⁻

✓ 13.87 λ9305 O9² ± 13.87

✓ 13.87 λ9271 O0² 13.3-1

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Var No 40 w Cent. HB - Feb 9 -

X9271
Or³
✓ 14.09 14.09

X9305
✓ 13.90 q³ 1.1 r³ 14.00 13.99 = 14.00 00 .01
13.99 14.09

X9027
✓ 14.09 Or³ 14.09

X9062
✓ 13.05 m³ 1, 3 m³ 13.18 13.02 = 13.08 .07 .06
13.02 13.32

X9072
✓ 14.58 Ot³ 14.58

X9074
✓ 14.32 Or³ 14.32

X9073
✓ 14.09 Or³ 14.09

X9026
14.09 Or³ ± 14.09

X9064
✓ 13.48 Oo³ 13.48

X9216
✓ 13.32 On³ 13.32

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X 9022
13.90 Oq³ ± 13.90

X 9021
14.09 Or³ 14.09

X 9023
13.80 Oq³ ± 13.80

X 9066
14.09 Or³ 14.09

X 9063
13.32 Om³ 13.32

X 9070
14.32 s³1.1t³ 14.42 14.48 = 14.48 - .03 - .03
14.48 14.48

X 9075
13.08 Om³ 13.08

X 9071
14.32 Os³ 14.32

X 9065
13.69 μ³1.1q³ 13.79 13.80 = 13.80 01 00
13.80 13.90

X 9069
14.09 Or³ (3) 14.09

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

v X9067

13.90 Oq^3 + 13.90

X9024

v

14.09 Or^3 + 14.09

X9068

v

13.90 $q^3 1.1 r^3$ + 14.00 13.99 = 14.00 ~~00~~ 01

13.99 14.09

X9025-

v

13.90 $q^3 1.1 r^3$ ± 14.00 14^3.99 = 14.00 ~~00~~ .01

13.99 14.09

X9020

v

14.09 Or^3 + 14.09

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1999phae.proj.2285B

Cont.

Var V = 41

DIB Feb-10-

X 9020

13.87 ✓ 13.90 ~~13.90~~ 13.94 ~~13.99~~ — q 1. 1 n² — 13.97 ~~14.00~~ 14.04 ~~14.09~~ — 13.94 = 13.96 .01 .02 — 13.99 = ~~14.00~~ ~~00~~ ~~01~~

X 9025-

13.87 ~~13.48~~ — O o² ± — 13.87 ~~13.48~~

X 9068

✓ 13.82 ~~13.82~~ 13.41 ~~13.38~~ — n² 1. 1 o² — 13.42 13.41 = 13.42 00 01 — ± 13.42 ~~13.38 = 13.40 02 .02~~ — 13.87 ~~13.48~~

X 9024

✓ 13.87 — O q² — 13.87

X 9067

✓ 13.87 — O o² — 13.87

X 9069

✓ 13.82 — O n² ±1 — 13.82

X 9065-

✓ 13.82 — O n² — 13.82

X 9071

✓ 13.69 13.77 — h² 1. 1 q² — 13.79 13.87 — 13.77 = 13.76 .01 .01

X 9075-

✓ 14.04 — O n² ± — 14.04

X 9070

✓ 13.87 13.85 — o² 1. 1 h² — 13.61 13.60 — 13.87 = 13.78 .03 .03

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9062
14.20 — $O s^2$ ± 14.20 —

✓ X9066
18.08 $O m^2$ ± 18.08

X9023
✓
13.87 $O q^2$ ± 13.87

X9021
13.87 $O q^2$ ± 13.87

X9022
13.87 $O q^2$ ± 13.87

X9216
✓
13.87 $O q^2$ ± 13.87

X9064
✓
13.87 $q^2 1.1 r^2$ 13.97 13.94 = 13.96 .01 .02
13.94 14.04

X9026
✓
12.69 $l^2 1.1 m^2$ 12.79 12.98 = 12.88 .09 .10
12.98 13.08

X9073
✓ 13.87 $q^2 1.1 r^2$ 13.97 13.94 = 13.96 .01 .02
13.94 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1998phae.proj..2205B

✓ λ 9074
13.65 O i ± 13.65

✓ λ 9072
13.87 O i 13.87

λ 9062
✓
14.04 O i ± 14.04

λ 9027
✓
12.69 Si 1.1 mi 12.79 12.98 = 12.88 .09 .10
12.98 13.08

✓ λ 9305
13.08 mi 3 1. mi 13.38 13.22 = 13.30 .08 .08
13.22 13.32

λ 9271
✓
14.04 O i ± 14.04

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2286B

Cent -

Var № 42

✓ ✗9271
13.47 Oo + 13.47

✓ ✗9305
13.00 Om + 13.00

✗9027
✓ 11.74 g 1.1 h + 11.84 12.07 = 11.96 .12 .11
12.07 12.17

✗9062
✓ 11.74 g 1.1 h 11.84 12.07 = 11.96 .12 .11
12.07 12.17

✗9072
✓ 12.17 0 h 12.17

✗9074
✓ 12.17 0 h + 12.17

✗9073
✓ 12.17 h 1.1 k + 12.27 12.35 = 12.31 .04 .04
12.35 12.40

✗9026
✓ 11.74 g 2.1 h 11.94 12.07 = 12.00 .06 .07
12.07 12.17

✗9064
✓ 12.17 h 1.1 k + 12.27 12.35 = 12.31 .04 04
12.35 12.40

✗9216
✓ 13.82 n 1.10 + 13.42 13.41 = 13.42 00 .01
13.41 13.51

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae..proj..2285B

✓ X9022
11.74 g1.1h 11.84 12.07 = 11.96 .12 .11
12.07 12.17

X9021
11.74 g1.1h 11.84 12.07 = 11.96 .12 .11
12.07 12.17

X9023
✓ 11.74 g2.1h 11.94 12.07 = 12.00 .06 07
12.07 12.17

✓ X9066
12.17 ~~g1.1h~~ h1.1k 12.27 12.38⁻ = 12.31 .04 04
12.38⁻ 12.48⁻

X9063
✓ 12.17 h1.2k 12.27 12.23⁻ = 12.26 .01 .01
14.23⁻ 12.48⁻

X9070
✓ 12.17 h1.2k 12.27 12.23⁻ = 12.26 .01 .01
12.23⁻ 12.48⁻

X9075⁻
✓ 12.17 h1.1k 12.27 12.38⁻ = 12.31 .04 .04
12.38⁻ 12.48⁻

X9071
✓ 12.17 h2.1k 12.87 12.88⁻ = 12.86 .01 .01
12.88⁻ 12.48⁻

X9065⁻
✓ 12.17 h1.1k 12.27 12.83⁻ = 12.81 .04 .04
12.83⁻ 12.48⁻

X9069
✓ 12.17 h1.1k 12.27 — 12.83⁻ = 12.81 .04 .04
12.38⁻ 12.48⁻

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9067
12.17 Ok · 12.17

✓ X9024
11.74 g 3.1 h 12.04 12.07 = 12.06 .02 .01
17.07 12.17

✓ X9068
12.17 h 1.2 k 12.27 12.25⁻ = 12.26 .01 .01
12.25⁻ 12.45⁻

✓ X9025⁻
11.74 g 1.1 h 11.84 12.07 = 11.96 .12 .11
12.07 12.17

X9020
v
11.74 g 2.1 h 11.94 12.07 = 12.00 .06 .07
12.07 12.17

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae..proj.2285B

Cant-

JIB Feb. 13 -

Jar № 43

✓ X 9020
13.30 Om ± 13.30

✓ X 9025
13.30 m1.10 13.40 13.37 = 13.38 .02 .01
13.37 13.47

✓ X 9068
13.47 Oo ± 13.47

✓ X 9024
13.30 m1.10 ± 13.40 13.37 = 13.38 .02 .01
13.37 13.47

✓ X 9067
13.47 Oo ± 13.47

✓ X 9069
—

✓ X 9065
13.67 Op ± 13.67

✓ X 9071
13.67 Op ± 13.67

✓ X 9073
13.47 Oo ±1 13.47

✓ X 9070
13.30 n2,10 13.30 13.37 = 13.44 .06 .07
13.37 13.47

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

X9063
13.67 Om ± 13.67

X9066
13.47 Oo ± 13.47

X9023
13.80 m1.1o ± 13.40 13.87 = 13.38 .02 .01
13.87 13.47

X9021
13.30 m1.1o 13.40 13.87 = 13.38 .02 .01
13.37 13.47

X9022
13.30 Om ± 13.30

X9216
13.00 13.10 13.20 = 13.15 .05 .05
13.20 m1.1n ± 13.30

X9064
13.47 Oo 13.47

X9026
13.00 m1.1n 13.10 13.20 = 13.15 .05 .05
13.20 13.30

X9043
13.47 01.1p 13.57 13.57 = 13.57 ~~00 00~~
13.57 13.67

X9044
13.47 01.1p 13.57 13.57 = 13.57 ~~00 00~~
13.57 13.67

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

✓ X9072

13.30 Om ± 13.30

✓ X9062

13.30 Om ± 13.30

✓ X9027

13.00 m 1, 2m 13.10 13.10=13.10 ~~00~~ ~~00~~

13.10 13.30

✓ X9305-

12.72 l 1, 2 m 12.82 12.80 = 12.81 01 .01

12.80 13.00

✓ X9271

13.00 Om (?) 13.00

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

200

Misel. obs. & Measures — A.I.B.

Dec. 3. '98

Measured independently Var. No. 2. Messier 5 — as follows:

No 2. x 7036. 0m. 14.53 ; x 7038. gl, 1r 13.81

(Miss Eclands measures were respectively 14.60 and 13.75)

Dec. 31-'98

Measured x 5552 No 4. r 2, 18. Mogue — 14.13

No 4 Perfectly independent Miss L. makes it — r 2, 15

No 13. Remarkes x9271 l 1, 1 nn } shuffled not proj.

x9305 gl, 2 r }

x6708 Oo ± poor pl. }

x6707 m3, 1 n } shuffled

x6705 l 3, 1 nn }

x9020 On

x9025 Op ± dif.

x9022 m1, 4 n

x9021 Om

x9023 m3. 1 n

x9024 n2. 1 o

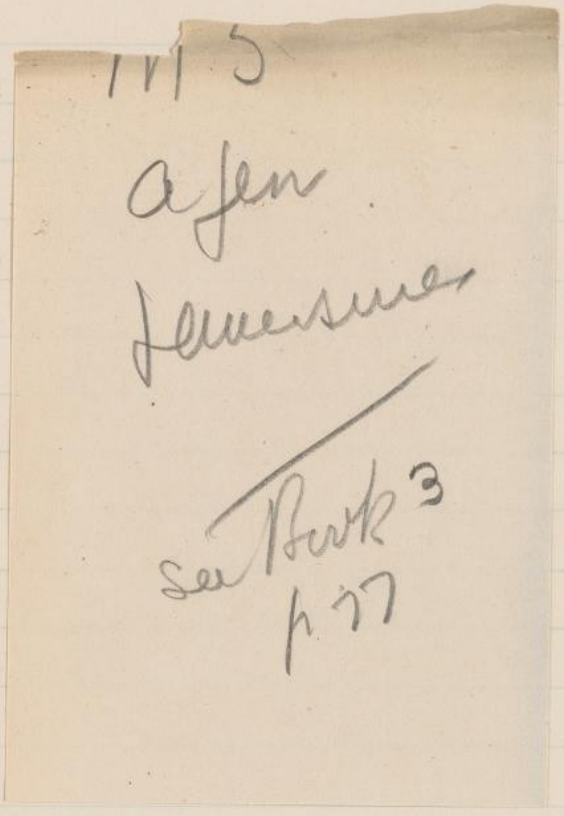
x9026 Oq

x9027 gl, 1 r

No 19 Rem. x8709. Or². It is much for the q² may be as ft as s².

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B



John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

(see ω Centauri misc. papers 1888-96 p 232)

Brighter stars of ω Centauri

D. P. B. Nov. 30. '95

Region - a circle having a radius of one thousand second of arc (1000")

Goulds Stars -

A.G.C. 18279 (Z.C. 13h 8 mags 1164). 8½ magn.

(a) Z.C. 1083 8½-
(d) " 1095 8½-
" 1108 8½
(b) " 1232 9
" 1240 9

} these are the brightest stars in region

~~Six~~ seven stars of about magn. 10. or brighter
~~ten~~ " " " " 10.5 " "
eight " " " " 11 " "
fifty " " " " 12. " "

The photographs show stars to faintest magn 15.
Hence about 6300 stars of magn fainter than 12.

Summary of above facts

The following is an approximate grouping of the stars within a radius of 1000" from the centre of ω Centauri.
There are a dozen stars of the 10½ magn. or brighter - of which Gould gives the following: (see above).
There are 20 stars between magnitude 10 and 11.
" 50 " " " 11 and 12.
" 6300 " " " 12 " ~~15~~ 14.5

This assumes correctness of count by D. P. + R. P. B. (6389)
There are also a large number of fainter stars which do not photograph with sufficient distinctness to count.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1996phae.proj..2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Int-system meas. D.P.B.
λ4006 – λ4427

35
76
32
7
36
74
72
75
93
77

I suspect sequence class
O^2 and B^2 of slight-
variability.
D.P.B.
Dec 16 1898

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

W Centauri plates.

Poor	Very Poor
~~7019~~	✓ 5463
~~✓ 6708~~	✓ 5223 s- gas slant
~~1 4615s~~	5223 m
~~4678 (?)~~	✓ 4610 v. low quality
~~4585 (?)~~	✓ 6780 m
4006	✓ 6729 m
~~4609~~	✓ 5773 k
~~6726~~	✓ 6699 m
~~4608~~	✓ 6779 m
~~4607~~	✓ 6955 mag. bad, dbl.
~~4735s~~	✓ 4675 m low.
	✓ 5772 k
	✓ 4621 m
	✓ 4606 m low
	✓ 7757 m

Little green of seq. slant the faintest which is well shown.

P. 1 B.
Nov. 22. '98

From ✕ 4006 to ✕ 8427

Poor 11
very low 15
26

also there are a dozen more, to discard which would perhaps be no great loss.

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1990phac.proj..22058

Finally. Rejected plates

X 4608 ✓
4610 ✓
6780 ✓
5235- ✓
5463 ✓
6955- ✓
4621 ✓
4609 ✓
5772 ✓
4675- ✓
6779 ✓
7757 ✓
4606 ✓
6728 ✓
5773 ✓ 15
4607 ✓
A 1735- ✓ 17
X 7019 ✓
4678 ✓
4615- ✓ 20
6699 ✓
4585- ✓
6729 ✓ 23

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

Rejet 28, 31, 37, (93?)

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

1898phae.proj.2285B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System

astroph/9411068 proj: 2205B

John G. Wolbach Library, Harvard-Smithsonian Center for Astrophysics • Provided by the NASA Astrophysics Data System