

H D 114095
- 603712

13 05.9 -7 03

Envelope
+73,8

8.36 + 94 + 56

04 12

27 C 7

011 27

slightly damp
C H *

66

5.00

-214 +071 CIR

-211 +109 Y

1 -11

-210 +98

+1 +3

-209 +101

-210 +08 B



13.100
-7.050
-212.000
86.000
5.000
100
73.800

-0.818
0.442
-0.369
995.576
72.318

0.572
0.697
-0.333
-286.192
-60.598

-0.066
0.565
0.822
200.000
90.287

4W
-25.16

~~118~~

Antenna Ag.

+15 82296

114807

13 07 00

+17 47

45

8-79 MO

64205 (B) (C)

+58
-0013 -037 CC
-035 FRY
-0346 FRY

-010 -34-54
-3 -5
-013 -039 FRY

8.26+1.495+1.84 (2)
7.80+0.645 (2)

Paul

211
213
217
215
215
215
215
215

-0150 ±6
-016 -030
-035
-011
-014

±5 400
±5 400
151131
200.84
916
916
95.1 85.6

11

12/10

11/10
10/10

-34

1.18

2



14300.000*

13.000*

7.100*

17.000*

45.000*

-0.016*

-0.030*

9.200*

691.831

-25.100

-0.017

-0.154

-0.100

-0.159

-0.099

-107.627

-0.019

-14

-22

9.15



Handwritten mark or signature, possibly a stylized letter or symbol.

Handwritten mark or signature, possibly a stylized letter or symbol.

Handwritten mark or signature, possibly a stylized letter or symbol.

Handwritten mark or signature, possibly a stylized letter or symbol.

14300.000*

13.000*

7.100*

17.000*

45.000*

-0.014*

-0.032*

9.150*

732

676.083

-25.100

-0.030

-0.154

18

-16.629

-0.161

-0.099

-116

-106.659

2

-0.021

0.983

-40

-38.813

001.100	:	A. R.
008.100	:	DEF.
048.140	:	A. R.
048.140	:	DEF.
051.120	:	A. R.
051.120	:	DEF.
001.100	:	A. R.
001.100	:	DEF.
018.0-	:	(U)
030.0-	:	(U)
041.0-	:	(U)
048.140	:	U
051.120	:	U
051.120	:	(V)
018.0-	:	(V)
001.100	:	(V)
048.140	:	V
048.140	:	V
018.0-	:	(W)
018.0-	:	(W)
018.0-	:	(W)
018.0-	:	WM

R. A. : 13.100
DEC. : 17.800
R. A. : -18.740
DEC. : -20.840
ANCE : 7.150
ULUS : 269
VEL. : -25.100

(U) : -0.818
(U) : 0.556
(U) : -0.149
dU : 14.262
U : 7.587

(V) : 0.572
(V) : 0.814
(V) : -0.100
dV : -128.790
V : -32.144

(W) : -0.066
(W) : 0.168
(W) : 0.984
dW : -10.983
W : -37.232

✓

114800 13 02.1 +17 45 gmd

Answers:

$$8.26 + 1.495 + 187 \textcircled{2}$$

$$7.50 + 0.645 \textcircled{2}$$

$$-25.16$$

7.12

~~6.5~~
~~2.45~~
91

$$-0013 - 037 \text{ Sadira}$$

$$-0012^3 - 0346 \text{ F104}$$

$$-018'$$

$$-016 - 030 \text{ + 600}$$

062

011

12

21

3

-37,284

0,983
-0,019

-105,121

-0,099
-0,159

-7,828

-0,154
-0,017

-25,100
676,083

9,150*
-0,030*
-0,016*
45,000*
17,000*
2,100*
13,000*

11430,000*

3

114251

13 07.3 -60 35 ASTWAB

-60.4487

Ca H+K narrow as in Fm S old
 end of nearly equal strength; H lines
 weak or narrow for metal line strength.

$\frac{R(Fu/H)}{A_{mm}}$ +15:

-0141 -020 Y
~~-19291~~ ~~017~~ C
 -0116 -0185

-085 -014

-173

-14

6.25

-0086 -012 C

-0090 -023

-0091 -017

4

REF. :
MODULUS :
DISTANCE :
FM. DEC. :
FM. R.A. :
DEC. :
R.A. :
13.100
-28.000
-173.000
-14.000
0.000
178
0.000

R.A. :	13.100
DEC. :	-60.600
PM. R.A. :	-173.000
PM. DEC. :	-14.000
DISTANCE :	6.250
MODULUS :	178
VEL. :	0.000

114960 13 11.4 +01 43 8125 +72 58?

75.50(6)
+2.10(14)

6.59 +1.40 +1.72 MSIII R

V(-0.6)

69584

53.26
4.65
4.50
4.50
2.05
2.05

6.56 817 713 26 0.570

DM

384

181 1268?

+13 -72 -13.005
+10 -01 -2.006

~~-056 -057 66+~~
~~-050 -057 66~~
-056 ± 7 -057 ± 6 Y

632 ff 1263 294 181 1268?

512
1480
70
70

6.60 +1.40 +1.70 (2)

5.70 +0.54 (2)

656 967 761 366

+18
-102
-21

7.50 =

14.00
7.50

47

-306 -952 01 -056 -056 +7 0 0 -265-

017 0 053 0-081 251 +7 -7 -2

002

-0033 # 2.9 -057 2.7
-0034 -056
467 +123 -132

24.573 K01.2 +1 43 17.20 1894.2

3.07

+37 -177 -42

0025

354

20.27

-39 +98 -106

24.588
23
161

-11
17.01

+33 -143 -32

0023

24.602
16

615
-119

17.50 1894.35

-42 107 -115

+36 -154 -34

6.61

15.68
17.94
-2.33

532
749

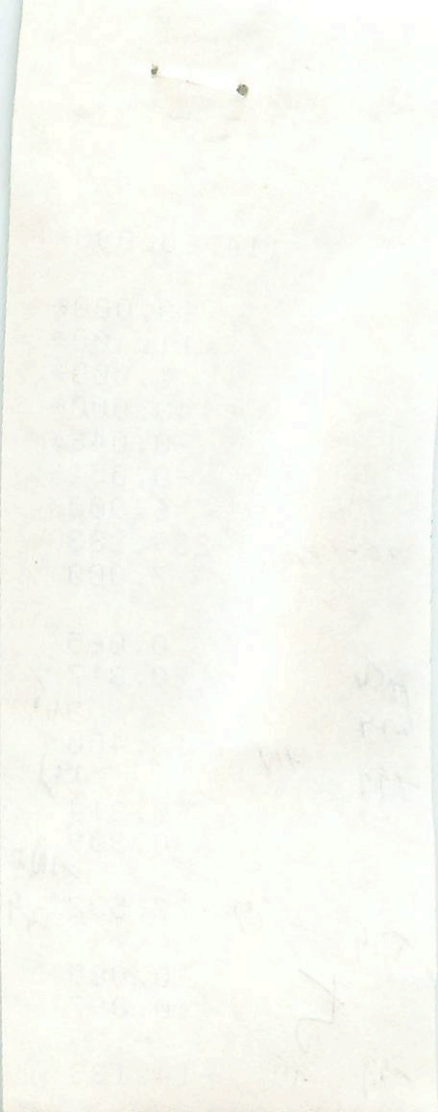
-0033 -0546 #104

+3

423
423
423
423
423

-044
-044
-044
-044
-044

-048 -051



114960.000*

13.000*

11.400*

1.000*

43.000*

-0.048*

-0.051*

6.900*

239.883

7.000

0.065

-0.317

13.400

-0.314

-0.309

-77.532

-0.085

0.897

-14.133

7.4
802 ~~177.8~~

0056
624
794 117

524 - 97
5
41 19

526
191
-10.0
-22.9

56 Via -2 -0022 ± 3.0 -055 ± 2.5
 115062 13 12.1 -10 96 7.2 gm2 +27.36

17935
 7881 7.601 1905.2 4.93 0.76 F104
 -030
 -028-046
 -00205 -052 664 ± 2.0
 -0504

(10765) 0.72 099
 B(A-W) 210
 -0021-053 26
 +3
 -0021 -050
 0 +2
 5.50
 0.70
 (80)

099
 .700
 49.018
 18.608
 7.626
 32
 .65
 12
 .630
 7.657
 +8
 665

783
 64228
 8.2

667
 -033
 31.8

5.86 78
 548
 104
 4.71
 8.2
 295

+2.72
 17.68
 22.59
 57.40
 19.99
 +45
 19.51
 +24
 19.25
 19.82
 +12
 19.70

1933.62
 3

73.87
 39.0
 36.5

-0302
 -024-046

582
 510
 372
 752

6.94 + 1.575 + 1.875 (2)
 5.50 + 0.795 (2)

19.48
 -1.80

-030 -048

400 po. ↘

-809	+418	-463	+1150	-0951	+0200	+8.0	12.6	-11.3
+581	+675	-455	-0826	-1536	-2362	-94.5	-12.4	-106.9
-089	+608	+789	+0126	-1380	-1257	-503	+01.5	-28.8

91749
5629



115062.000*

000*

31.246
~~115338~~
115338

13 13.9 401 09

+22.9 (2) 12211
+30.1 (1)

-73

-87

13.2

+31.15

-85

-87

9.3

+22.9

8.66 130
~~66~~
2.05

7



13.200 : R.A.
 31.150 : DEC.
 -85.000 : PM. R.A.
 -87.000 : PM. DEC.
 7.300 : DISTANCE
 288 : MODULUS
 22.900 : RAD. VEL.

-0.800 : p1 (U)
 0.280 : p2 (U)
 -0.035 : p3 (U)
 37.295 : q1
 2.250 : u

0.201 : p1 (V)
 0.808 : p2 (V)
 0.103 : p3 (V)
 -233.241 : q1
 -121.452 : v

-0.087 : p1 (W)
 -0.093 : p2 (W)
 0.990 : p3 (W)
 20.080 : q1
 32.113 : w

R.A.	:	13.200
DEC.	:	31.150
PM. R.A.	:	-85.000
PM. DEC.	:	-87.000
DISTANCE	:	7.300
MODULUS	:	288
RAD. VEL.	:	22.900

0.047

q1 (U)	:	-0.809
q2 (U)	:	0.586
q3 (U)	:	-0.035
dU	:	37.295
U	:	9.950

+31

q1 (V)	:	0.581
q2 (V)	:	0.808
q3 (V)	:	0.103
dV	:	-533.241
V	:	-151.425

7

1.0

q1 (W)	:	-0.089
q2 (W)	:	-0.063
q3 (W)	:	0.994
dW	:	56.686
W	:	39.112

+34.7

Pf4 P = 0.60

ST Com

13 15.4 + 21 03

1100 d u 10

7905

and 11 vis

687

DS =>

687

-03449 -01449

-03335 -04335

-03335 -03635

-323 -946 359 534 -033 -036 +100 -013 +36 -161

-011 -004 031 012 -109; 125 +934 -58 -30 001

-197 +98 -125

+11 -234 +98

-224 +130 -165 0008

+18 -291 +96

0007

614-45

13 16.4

-2.48

+1267 B

M

1080 587 517 115 C

11548 13 178 +38 05

+38248
67646

-338-42

801 0.72

$\rho = 16.2$
-3.6

13.3
+384
-509
-12
3.0
-3.5

8

097 09782 928 2897
+200
800na

087 09782 928 2897
+135 -9 401-020 1284 485 x10
-2.5a

116842
18155
7966

2.04 + 0.02 + 0.04

+118 - 024 G

4.01 + 0.16 + 0.08
20.5
13.4

¹¹²⁰ - 024 G(2)
A 555

W7564
00754
00544
01819
01819

01819
01819

34A(16)
30 117)
+0135 - 026
+0130 - 0234

13.4
+5525
20.5

11- 235
15- 194
15- 194
15- 194
15- 194

30 117)
+137 1814

20.5
he

92 518 L8C 85
49 20804

510-9114

+117
205

116-009
9114

10.4
10.4

Delb
10.4
10.4

1610
219
205

AS 004
20804
20804
11-

-356 - 934 822 570 +118 -024 -7.5 -020 -6.2 -046

042 ~ 007 - 111019 109 - 5559 - 4.3 + 4.0 + 1.5 40

$$+ 6.7 - 1.25 = 5.5$$

035

$$+ 7.1 - 1.45 = 5.1$$

$$- 1.6 + 4 = 2.4$$

043

$$+ 6.5 - 11.5 = -7.7$$

$$- 1.36 + 2.6 = 1.24$$

03

$$\begin{array}{r} 13.549 \text{ q15} \\ + 10140 \\ \hline 23689 \end{array}$$

$$\begin{array}{r} 12.731 \\ + 1 \\ \hline 12.732 \end{array}$$

$$13.446$$

$$\begin{array}{r} 13.446 \\ + 1 \\ \hline 13.447 \end{array}$$

$$\begin{array}{r} 54.110 \\ + 132 \\ \hline 54.242 \end{array}$$

$$53.12$$

$$\begin{array}{r} 53.12 \\ - 23 \\ \hline 52.89 \end{array}$$

$$52.89$$

$$13.752$$

$$\begin{array}{r} 1206 \\ + 5217 \\ \hline 6423 \end{array}$$

$$+ 7.6 - 17.1 = -9.5$$

$$- 18.2 + 5.2 = -13.0$$

$$740$$

$$5196$$

806me

5062 13 23.2 755 16 ASD

176842

18158

403 + 15 + 05 J

105 195 523 (2) SPG 2-8-87 (sk)

098 216 933 2-8-87 JG (sk)

$$\begin{array}{r}
 097 \text{ } 152 \text{ } 928 \text{ } 2847 \\
 \text{ } 149 \text{ } 509 \text{ } \text{ } \text{ } \\
 \hline
 \text{ } 149 \text{ } 1029 \text{ } 1289
 \end{array}$$

401 - 020 1289

Banks

777

7114

165

754

7180

7186

7150
7180

R.A. : 13.400
DEC. : 55.250
R.A. : 202.000
PARALLAX : -9.000
PROPER MOTION : 2.350
RADIAL VELOCITY : 30
~~-11.000~~
M

(U) : -0.791
(U) : 0.584
(U) : 0.183
dU : -456.492
U : -15.489

(V) : 0.597
(V) : 0.670
(V) : 0.442
dV : 297.251
V : 3.915

(W) : -0.135
(W) : -0.459
(W) : 0.878
dW : -54.139
W : -11.259

9

Q165-4 13 26.0 +29 13

54544

12.94 0.52

227 200

-288

-228 200

200

1494



10

R.A.	13.450
DEC.	29.200
R.A.	-258.000
DEC.	-28.000
PM.	5.300
DISTANCE	115
MODULUS	-149.400
VEL.	
RAD.	-0.785

117220 13 26.7 -37 15 25-20

-36.8601

8PM

-1046 -015

9:00 P.M.

-13 23

/

1877
117555

13 18.4 + 2.4 249

62549

-0.00541 ~ 0.23 Coulomb

0.56 0.73

v^2

v_3

v_0

$v_{1.2}$

653

+37

58.7

73

11

DEC. : 13.450
A. : 24.200
DEC. : 2.880
INCE : 23.000
LUS : 1.000
REL. : 150

(U) : 2.000
(U) : -0.200
(U) : 0.000
GU : -0.200
U : 144.000
281142

(U) : 0.001
(U) : 0.200
GU : 0.004
-247.400
-40.100

(U) : -0.100
(U) : 0.004
(U) : 0.200
32.110
-12.200

//

R.A. : 13.450
DEC. : 24.500
R.A. : -62.000
DEC. : -23.000
ANCE : 6.000
ULUS : 158
VEL. : -21.300

(U) : -0.786
(U) : 0.600
(U) : -0.150
dU : 144.736
U : 26.142

(V) : 0.601
(V) : 0.798
(V) : 0.044
dV : -247.695
V : -40.198

(W) : -0.147
(W) : 0.056
(W) : 0.988
dW : 33.118

N

FB7

17 254 4.5 52 80

FB183

12.46 0.22 102

9.5

110-500+

9.5
102
110-500
9.5
9.5
9.5

12

R.A.	:	13.600
DEC.	:	15.950
R.A.	:	34.000
DEC.	:	-15.000
		9.500