

6.2-  
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1.344  
5.71

5.1.5-  
5.5.3  
104  
8.47  
11.4  
3.54  
7.83/1.86  
0.3  
2.4422

5.5.2-5.5.2  
5.71

0.47-  
0.30  
2.4-  
4.3.4.5.1  
0.03  
5.42  
6.8.5.2

1.4-  
1.4

5.250-5.19.00  
1.70-1.700  
1.000

6.83

2.58

0.5  
1.000  
1.5  
7.192 5.54 2.558

6.1.56 1.6 0.87 1.49 0.4 6.4.1.5

62



16.500

49.100 ✓

-90.000

-55.000

5.150

107

-7.900

-0.272

0.945

-0.179

-170.474

-16.851

0.628

0.316

0.712

-257.551

0.220

6158

16

30.1

+5

38

BS

5.64 - 05 - 15

015

5.64 - 010

121

908

2.806

89.5 116

116

908

232

1143

16.5

+5.6

+18

+1

87

-24.5

$a_v = +0.05$

$v_0 = 5.60$

5.55

Shell

mm

+0.9

+0013 - 003G C +  
+0014 +0015 F 104

-27.0

5.55

+0021  
+0020

+003 +003

+001 +001

$+0010 \pm 2.2$   
 $-005 \pm 2.0$   
 $-003$   
 $-002$   
 $84.15$   
 $19063$

$7.912$   
 $-043$   
 $\hline 869$

$+0007$

$17$   
 $\hline 3432$

$7.927$   
 $+2$   
 $\hline 7.929$

$+0013$   
 $-003$

$34.11$   
 $+15$   
 $\hline 1938.96$

$7.929$   
 $+0$   
 $\hline 7.929$

$+0010$   
 $-005$   
 $+00107$   
 $-0007$

$34.26$   
 $+15$   
 $\hline 34.26$

1959.02 ✓

$7.994$   
 $+0000$   
 $\hline 7.994$

$+0010$   
 $+018$   
 $+001$   
 $34.09$

$84.46$   
 $-82$   
 $\hline 34.14$

$7.995$   
 $+9$   
 $\hline 7.994$   
 $33.53$

$7.909$   
 $40$

↪



6158.000\*

16.000\*

30.100\*

5.000\*

38.000\*

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6116  
1719

28.1 +68 53 8914

149212  
2355  
212511

-0057  
+564  
-0307  
-026 +038  
+0343  
-124

+00580  
+1854  
-6.7

-0313  
-0257 +036

4.98-06-12

4.56 -017 119 1060 2.820 A0III

114 1063

228

1291

my = +0.05

10 5.0  
4.95

16.5

+684

-72

+38

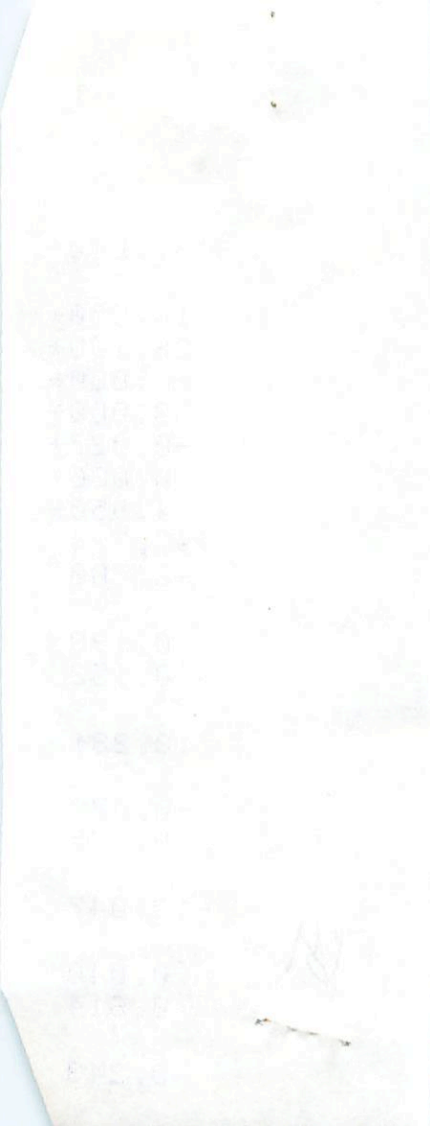
4.9

-6.7

-24.53 3382  
644 045

8474 -4093 / 0708  
15301 9196 / 0088

64



6161.000\*

16.000\*

28.100\*

68.000\*

53.000\*

-0.027\*

0.036\*

4.950\*

97.724

-6.700

0.198

0.152

18.281

-0.070

0.775

-12.047

0.040

0.614

-0.247

BA

16.500

69.900

-72.000

38.000

4.900

134.90

95.50

-6.700

-0.272

0.950

0.152

tot.

204.590

-18.522

tot

0.628

0.056

0.777

-67.051

-17

-11.606

-0.729

-0.306

64

0.612

34.423

0

-0.010

↓ Her

6168 16 32.5 +42 33 89Ⅱ

149630 (404) 4.20-02 -10

-00169 +0423<sup>15.20</sup> 006 122 1040 2.791

+7 -29  
-00162 +0459 124 1039

-00172 +019 +095 F124  
+0437 248  
1287

-00183 -10.9 16.5

+42.55

-19

+42.5

4.5

-10.9

$M_V = -0.35$

$V_V = \frac{4.2}{4.85}$

65

1940-1941

1942-1943  
1944-1945  
1946-1947  
1948-1949  
1950-1951  
1952-1953  
1954-1955  
1956-1957  
1958-1959  
1960-1961

1962-1963  
1964-1965

1966-1967

1968-1969  
1970-1971

1972-1973

1974-1975  
1976-1977

1978-1979

20



16.500  
42.550  
-19.000  
47.500  
4.500  
79  
-10.900

97.2

-0.272  
0.919  
-0.286  
224.925  
20.983

+25

0.628  
0.395  
0.671  
47.225  
-3.564

-3

-0.729  
-0.003  
0.684  
47.679  
-3.668

65

-3

1948  
368  
8397

6.176 Singh (ed) 14, 34.5 + 15 86 8397 1200

149822

6.28-0075-0.4 6E 200.0 8 90

~~$$\begin{array}{r} -77 \quad 207 \quad 848 \quad 2808 \\ \hline -077 \quad 207 \quad 828 \quad 2756 \quad w \\ \hline 193 \quad 828 \quad 2922 \quad 126 \\ \hline \quad \quad \quad 386 \quad \quad 12 \\ \hline \quad \quad \quad \quad 12 \quad 25 \\ \hline \quad \quad \quad \quad \quad 25 \end{array}$$~~

Dr

10.2  
6.15

$$\begin{array}{r} +7 \\ \hline -0008 -019 400 + 40 \\ \hline -600 63 -015 5 \\ \hline -0091 1300 \end{array}$$

193  
208  
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-77 207 830 2800  
193 845 2924  
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OK  
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-0.403

-0008 ± 7.5  
-0013

-014 ± 8.3  
-034

149822- 16 34.4 +15 36 6.3 Aop 0.08

22335  
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15650

6.29 -0.11 -18 89P

Amplitude 78 Vm

-8 -19 15650  
-10 -19 15650

26.577 1905.5 +15 35 53.86 1906.1

+61  
54.47

-9 -15

26.577  
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589 1142

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26.542  
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31.4

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-1.08

53.69 1934.6

-1  
53.61

7503

37.5

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457  
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350

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-9.8

-10.4

18.2

457 350

-256  
+623  
-739

+691  
+653  
+311  
-676  
+431  
+558

+0189  
-0266  
+0315  
-0622  
-0588  
-0281

-0513  
-0854  
+0034  
-879  
-146  
41.9  
-23.4  
-35.0  
+1.6  
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-333  
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15 957  
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14507/1

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-0016 -026  
-0005 -0405  
-0006 -044

6.53 968  
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-0034 -042

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6674 h zu 16 35.3 -6 26

6.08 FIS +14 6

119 179 1032 2 waren

066 191 1071 2.868 W 1024

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-0004 -014 N30

109 180 1045  
199 1924  
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-00047

-00070  
-000 -012

-18.6 6 phat van built

$$\Delta m_1 = 31$$
$$\Delta G_1 = \frac{135}{16.9}$$

+1.2

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Sci

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1900

6179.000\*

16.000\*

35.300\*

-6.000\*

-26.000\*

-0.006\*

-0.012\*

4.900\*

95.499

-18.600

-0.015

-0.887

+14

15.084

-0.061

0.157

-13

-8.776

67

-0.008

0.434

-9

-8.849

5.85  
147

6182

16 383

-67

29

6.02+02

16

159

(100)

~~1068~~

~~2.853~~

(2)

6.02 33

144

1068

~~2870~~

Σ

154

1061

~~808~~

1369

ADU

12.0

70040 -037

60+

12.0

+8048 -0325

+0278

1025-031

5.2

5.4

~~WSS~~  
~~16 19.4 +15 16 +9 17~~

~~148 192~~  
~~1008 2773~~  
-033  
-042 ± 3.5

17.2-53  
-115  
17.140

1506.6  
+0026.84.2  
+0053

14-06 1502.5  
204  
1406

17.2894  
+.24  

---

3.13  
+193

14.47 1485.18  
-21  

---

15.28

+1.22

89



12

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6182.000\*

16.000\*

38.300\*

-67.000\*

-20.000\*

0.025\*

-0.031\*

5.400\*

120.226

2.000

0.058

-0.770

5.436

-0.003

-0.591

-1.510

-0.180

-0.240

-22.073

535

11745

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22



8.82-20-124 -20 15 54

82.5 IV

124  
263

16 34.9 -43 15

6174  
145711

5.85 08071 258  
 9.67 341 104 660  
 9.20 232 071 787  
 2.5 163 189

2.684  
 2.733

019 077 251 2684  
 080 277 160 5.3

588 04 01 258 437  
 2684

15.24  
 076  
 -1.3  
 6.6

-9 -23 +1.5

06 251  
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newly 100 years

16 "sup" 4867

Stimulus being

1015-032  
 100114-0283 0300  
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9727-2050  
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-014-027

4117

53.582 10.8

~~100224.7~~  
~~10012~~  
~~10418~~

-033  
-031 57.34 3.3

~~168~~

~~5583~~  
1.44

11.153400

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57.87

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5345

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115

(3566)

5683

~~13~~  
5436

69

6174.000\*

16.000\*

34.900\*

-43.000\*

-18.000\*

-0.009\*

-0.023\*

6.600\*

6.85  
236.2

208.930

1.500

0.035

-0.941

+7

5.923

-0.104

-0.335

-25

-22.157

6a

-0.042

0.041

-10

-8.630

6178

16 35.7

-37

07

+3.3

+1.9

74052  
30

10

-0006-049

-0016±4.5

6.53 968

1927

461

47071

2065

802

284

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8.22

44111

5598

6.61

7  
109

-10  
7.01

-00055

-045

-105-040

-0034

-0419

-0041

6167 14 345 -60 53 B8V

~~405~~ 6.18 -07 1.35

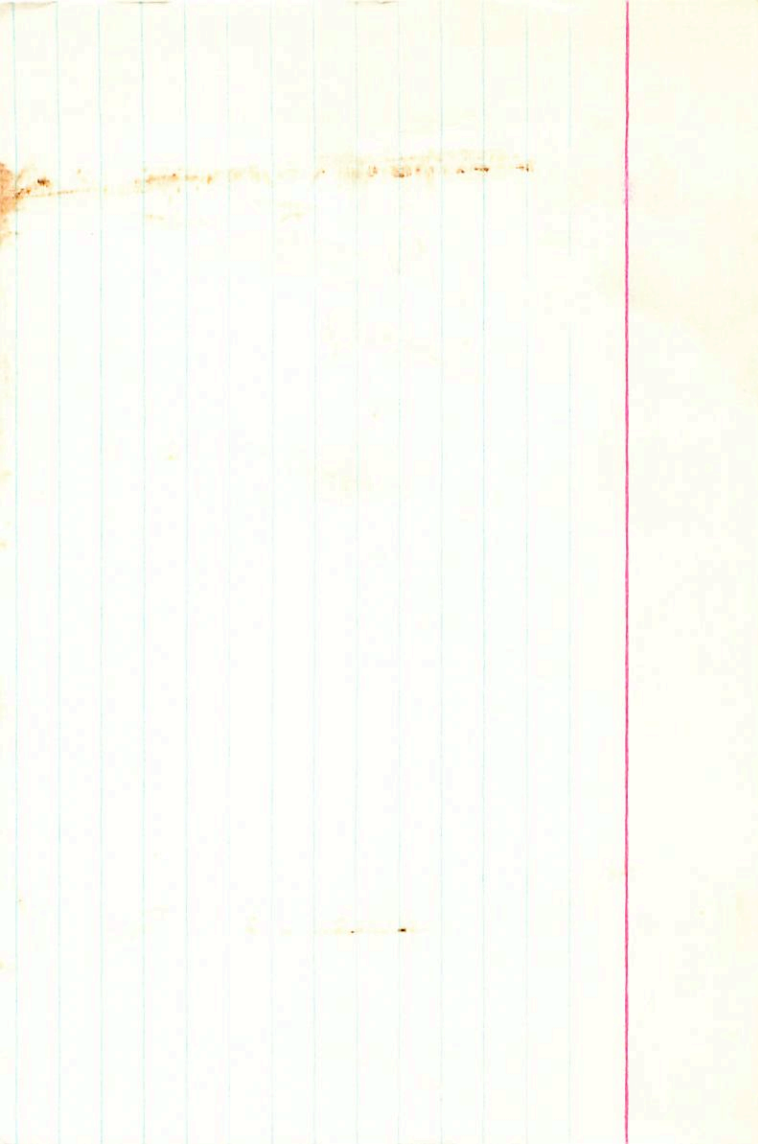
1121

-037 120 609 2734

109 616

$\frac{218}{834}$

$$M_V = -0.7$$
$$\frac{V_0 \ 6.05}{6.75}$$



150549

16 416 67 01 53 -26 46

Green

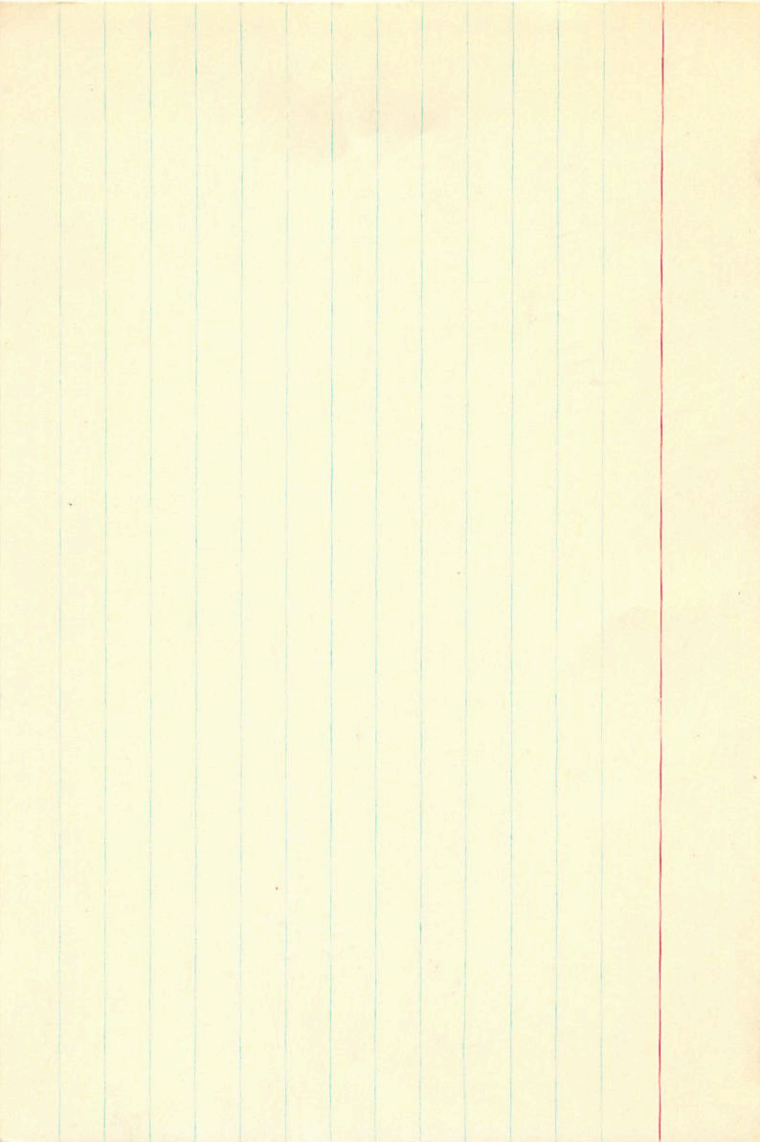
49617

-30 103 868 2689

204

019 020 Puth

110  
[ 510-110 ]  
-019-019





6204

14 41.6 ~ 67 00 Ari

645051

22523

Vullam

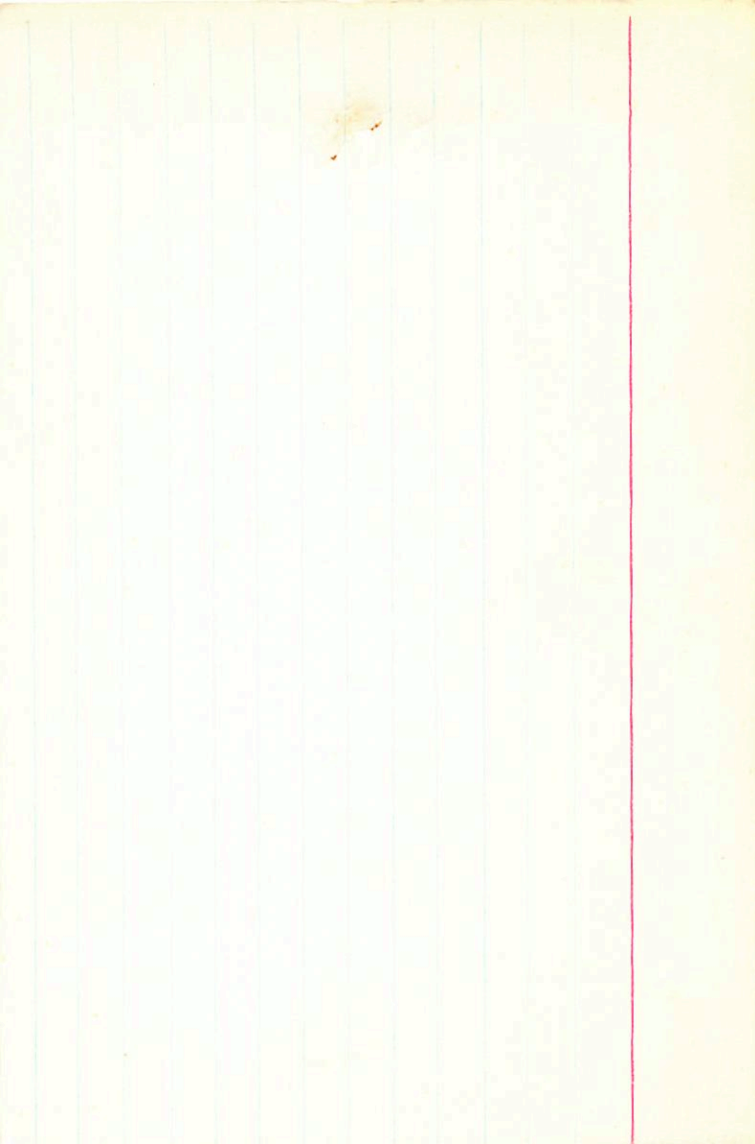
59  
②

5.12 - 25 106 573 2688

96 580

19.2

772



100.4  
6210 16 40.4 -35 03 AD

3206 0459 +05 6.05 -06 1.37

9472 +0021 6.06 -013 005 697 2.754 ④ 5.5

-4554 451  
-2640

No wind

067 100  
~~000~~  
~~050~~  
832

$$m_v = -0.315$$
$$\frac{60}{5.9} = 6.25$$

Strong

-0011 -049 16.11  
-5005  
-14.5  
-44.5  
5.55

-5009 -046

-0106  
-011.5 -044.5

70

6224 16 43.0 +1 07 B9

(+07)

6-03-01-14

(0.11)

15.9 worth

6.05 078

108

938

2.506

B7.5

117

930

229

115

600 + 006 BELT

-13.0

$M_V = 0.0$

x 009

105.85

5.8

-0001 + 008 Partho

16.7

+1.1

-0015

+3

600 + 009

+11

595-6.0

43.0-15.9

600 + 600 + 1011

57.091

1509.1

+0001

37.52

1504.9

-0001 +2.0

+005  
+008 +2.0

57.091

+0000

-136

3716

57.089

8570 +006

37.10

1535.42

00006 +0045

+15  
3725

57.091

+0009

+09

+003+011

9220

57.083

3783

7

57.090

37.51



6224.000\*

16.000\*

43.000\*

1.000\*

7.000\*

0.002\*

0.011\*

5.800\*

144.544 *MF*

~~-13.000~~

*159*

0.024

-0.836

14.334 *Ab*

0 -

*71*

16.700

1.100

0.000

9.000

5.850

148

-13.000

-0.228

0.500

-0.836

21.316

14.016

0.615

0.739

0.274

31.545

1.100

-0.755

0.451

0.476

19.246

-3.340

*71*





18.750  
1.100  
3.000  
11.000  
6.000  
-15.900

21.217  
0.500  
-0.830  
-0.217  
-0.500  
-0.830

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152127

16 48.8 + 01 18

6255

030 173 1001 2909

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034

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13210

72



R.A. : 16.800  
 DEC. : 1.300  
 PM. R.A. : 0.000  
 PM. DEC. : 0.000  
 DISTANCE : 0.000  
 MODULUS : 10  
 RAD. VEL. : 0.000

q1 (U) : -0.206  
 q2 (U) : 0.503  
 q3 (U) : -0.840  
 dU : 0.000  
 U : 0.000

q1 (V) : 0.608  
 q2 (V) : 0.738  
 q3 (V) : 0.293  
 dV : 0.000  
 V : 0.000

q1 (W) : -0.767  
 q2 (W) : 0.450  
 q3 (W) : 0.458  
 dW : 0.000  
 W : 0.000

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-0023 ± 3.0 -027 ± 2.0

-031

151862 16 47.3 +13 21 6.0 A0 -23.38

-033

-020

22648

9673, 5.95 +0.03 -0.02 A1K

A0510225 15.994 1901.3 +13 20 49.18 1896.8

112

+1.44

16.106

-0020 -0315

50.62

16.030

-00187 -0268

49.46 1934.7

044

-0273

49.37

16.043

-024.525

49.51 1939.78

.448

044

49.37

-062

49.37

37.2

15.960

48.63

49.37

40.4

7.915

308

48.25

-1.25

27

6235 16 45.6 -14 49 A0

6.03 + 20 1.50

(bet)

6.03 + 180 0.76 1089

2.800 (3) 552

130 1.053  
260

07

NO Vnd

1393

$m_V = -0.75$

NO 5.85

5.45





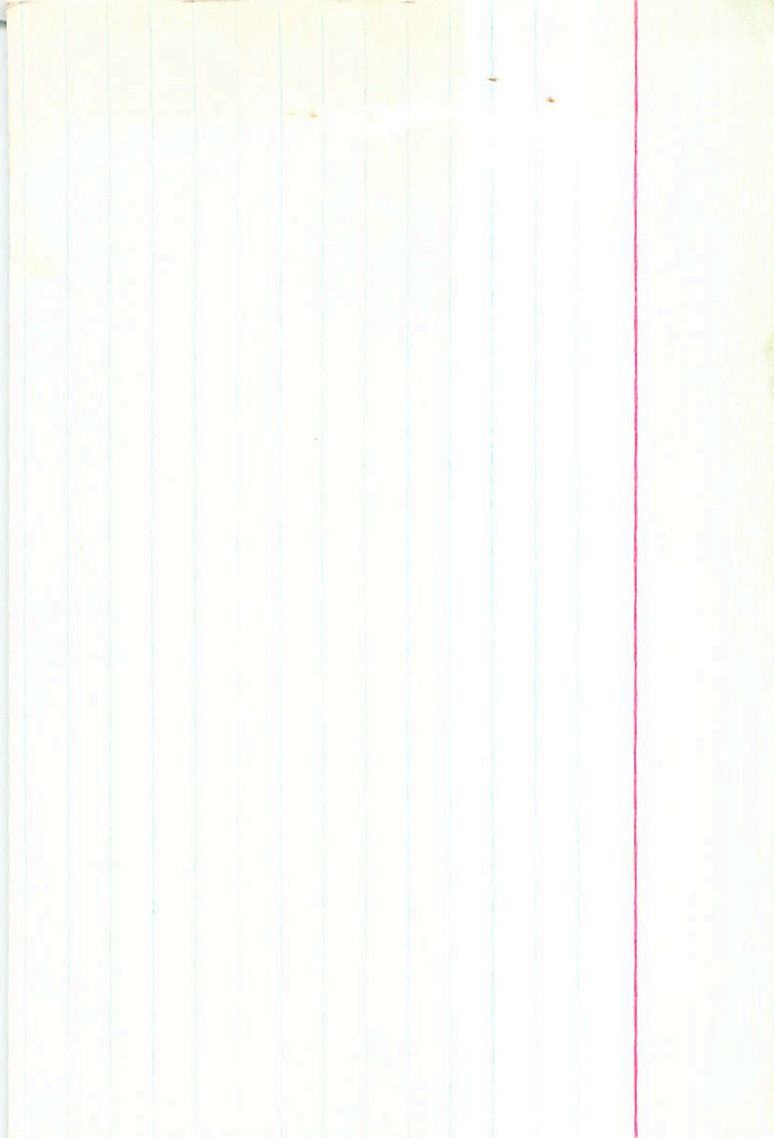
15.800  
12.330  
-25.000  
-25.500  
5.000  
100  
-23.300

-0.206  
0.654  
-0.728  
-55.209  
11.438

0.608  
0.668  
0.429  
-151.158  
-25.104

-0.767  
0.354  
0.535  
45.987  
-7.872

73



6244

16

47.6

37

26

6/11/09 Susy

6007-016 Shu J



6168.000\*

16.000\*

32.500\*

42.000\*

33.000\*

-0.010\*

0.045\*

4.450\*

77.625

-10.900

0.209

-0.288

19.353

0.054

0.676

-3.211

66

0.035

0.678

-4.651