+0007 ± 2.9 −012 ± 2.9
+0012 −014

146834 16 16.2 −20 06 6.4 gb7 +8.01

21935

9389 11.738 1902.4 −20 5 51.55 1900.8

−033

.705

43.949
27.740
17.689
40
9
.72 2
731

11.761
−6
755
743
+039

32.0

+59

50,96

10.87 1928.07
42.15

53.02
145
51.57
14
51.43

51.42 1940.68
−4
51.46
51.44
−0.48

6875
34.4
33.6

+0021 -050 H?
+022-050

-15.4
-1.4

S-2 Her 16 42.8 +46 04 Ap -1.0m

6254 4.80 +0.09 +0.04 0.0

ADS 10227

10 — 1.5 —

↓

also known as

10.0 - 11.1

+023 -062 Gc

+020 -064 Gm2

+022 -063 Gc+

— 2 +4

+020 0.018

-059

W 9477 4 A (24)

-15.8
-0.8
-50

-208 +947 -242 -16.8 +02 -14.8

+608 +319 -7.05 -7.5

-766 -4 -0.6 -3.7

-951 -310 721 693 +022 -063 0 -045 0 -208

021 -043 -007 014 050 -237 0 00 0.018

+2 -13 -17

-10 -7 -5

9400 6610
-414 -7507

+1.6 -11.5 -10.4 02

-15.0 -7.7 -4.3

+1.3 -9.5 -8.4 025

-12.2 -4.5 -3.8

021

+1.6 -11.3 -9.9

-14.1 -4.5 -4.2

52 Her 9.1 +0022 ± 2.1 −062 ± 1.7 H.7 Baum

1.52107 16 47.8 +44 04 4.9 A4p −1.0 a

+0009 −050 +0018 0.0

22662

9677 46.274 1891.3 +44 4 9.72 1890.2

AOS10221

5m 1.1" −129 3.09

.145 12 81

+0020 −0520

2.33 47.2 H 27.3

43.832 36.85

46.145 10.35

177 11

178 11.12

+033 10.9

1.84

+0208 −0474

+0200046

46.360 9.12

17 24

277 683

0510

−0116

−4.1

0136

434

9.72 −1510 1890.2 −7456

241

241

```
 1.550
15.950
25.000
-80.000
 2.100
    26
 7.000

 0.192
 0.712
-0.676
-222.053
-10.573

 0.423
 0.562
 0.711
-107.508
 2.149

-0.886
 0.422
 0.193
-380.940
-8.666
```

LG23-21/22 19 17.9 -7 45

12.12 +1.63
11.21
122F +07

10.34
8.71

0.0936
0.1006

570 ll 437
821 - 615

1825
0031
+0.22
0658
91

-083 -175 HSND
-074 -165 HSND
-061 -190 G

NO

144394 20 53.4 +46 10 GB-Bx, 0

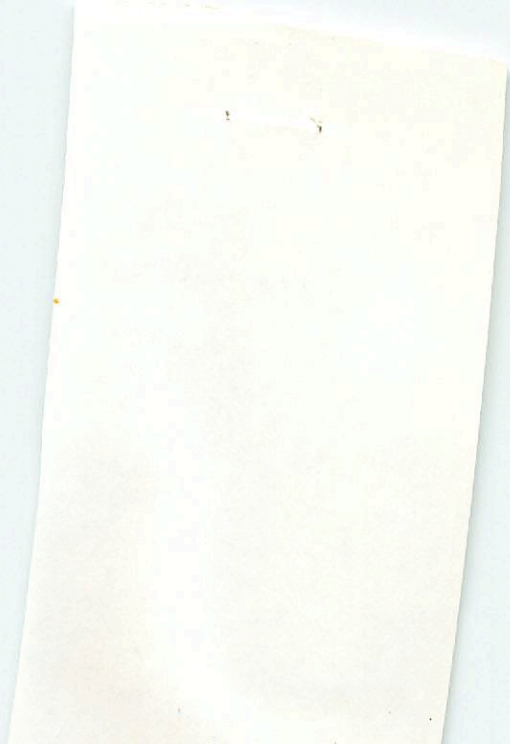
7.00 +1.01 +0.64 2.20

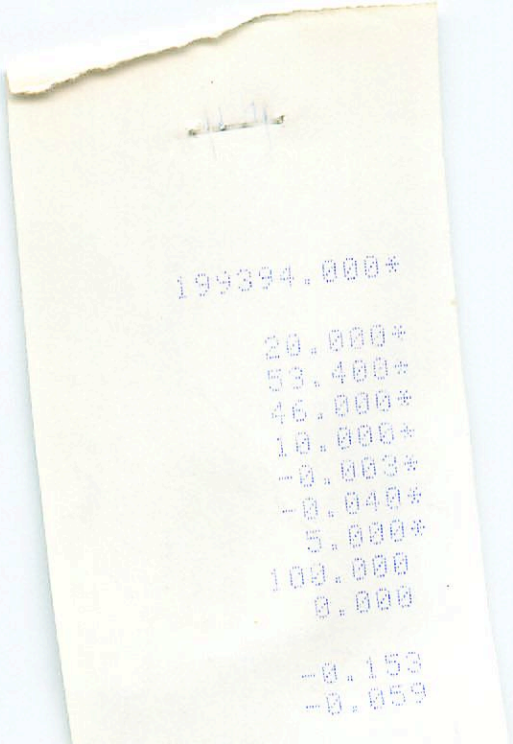
-0008 -045 GL →

-0.003 -040

-5 18.25

4.45




199394.000*
20.000*
53.400*
46.000*
10.000*
-0.003*
-0.040*
5.000*
100.000
0.000
-0.153
-0.059

-000.1 -041 -

7.1 → 5 18.35

HD199394 20 53.4 +46 10 4.48 Q c U(2)

BD+28207 -6.025 -0018 -049

w13145 7.1 4.5 6 -0.0008 ±5.1 -045 ±3.9

-0008 -040

7.00 +1.01 +0.65 220' -0007 -043

-0.007

26.066 1903.1 31.74 1895.0 Cuffey

24 258

090 3432 -0016 -044

-004 -007 -049

-0700

26.03

023 33.2 1929.7 9952 -0724 0494

-26

32.94 -034

38 50m 0894 -6474 -093

+652 +756 -058	-0216 -1541	-1757	-17.6	-14
+044 +038 +448	-0014 -0077	-0091	-0.9	-0
-757 +653 +009	+0251 -1330	-1079	-10.8	-9

-016 -018 ±3 p=-14

-3 +2

-019 -016 21 30.4 +48 13 1950

704

250 pp 9998 -1934 014

0484 -9819

-30
-13
+1

733 680 028	-0660 -0516	-11.7 -29.4 -0.4
-057 021 998	+0051 -0016	+0.35 +0.9 -14.0
-676 733 -055	+0611 -0556	+0.055 +19.4 -0.8

HR8461 +0.001 -0.021 +0.014 -0.021 22 09.4 +15 46 6.7 +10.96

W1345-4 5.56 +0.91 +0.23 -.013 -.018 GC -.015

8514 -3757
5237 -5267 +0.004 ±23 0.000

3757

26.277 08.6 0.37 325

-0.0045 -.016 -0.0015 -.03 -.0022 0.00 -0.17

26.331 321

-.018 ±2.1 -.014

36.14 1613.5 87 0.2

36.50 1538.55 +.04 34.5 4.8

-.0003 -.020 -.004 -.020

6534 5213 3890-5807 0.158 -.052 .044 6.56

-444 886 272 962 -013 -015 +10.9 -004 +3.0 -066.

-006 -002 -012 -004 -009 -066 +10.5 +9.3 -4.9 005

+8.0 -14.2 -6.4

$\boxed{-14.8 +5.3 -7.6}$ 007

006

+7.8 -15.9 -8

$\boxed{-17.0 +4.2 -7.9}$

+7.1 -21.4 -13.5 004

20,

207229 21 46.2 -64 57 -1.5 4C

FD1070 (2.04) -6.0 3 Sta

5.61 +1.01 IN TH -3.8

-0036 -0416

FRS F

+0043 -029 N30

+0025 -013 BL

+0038 -023

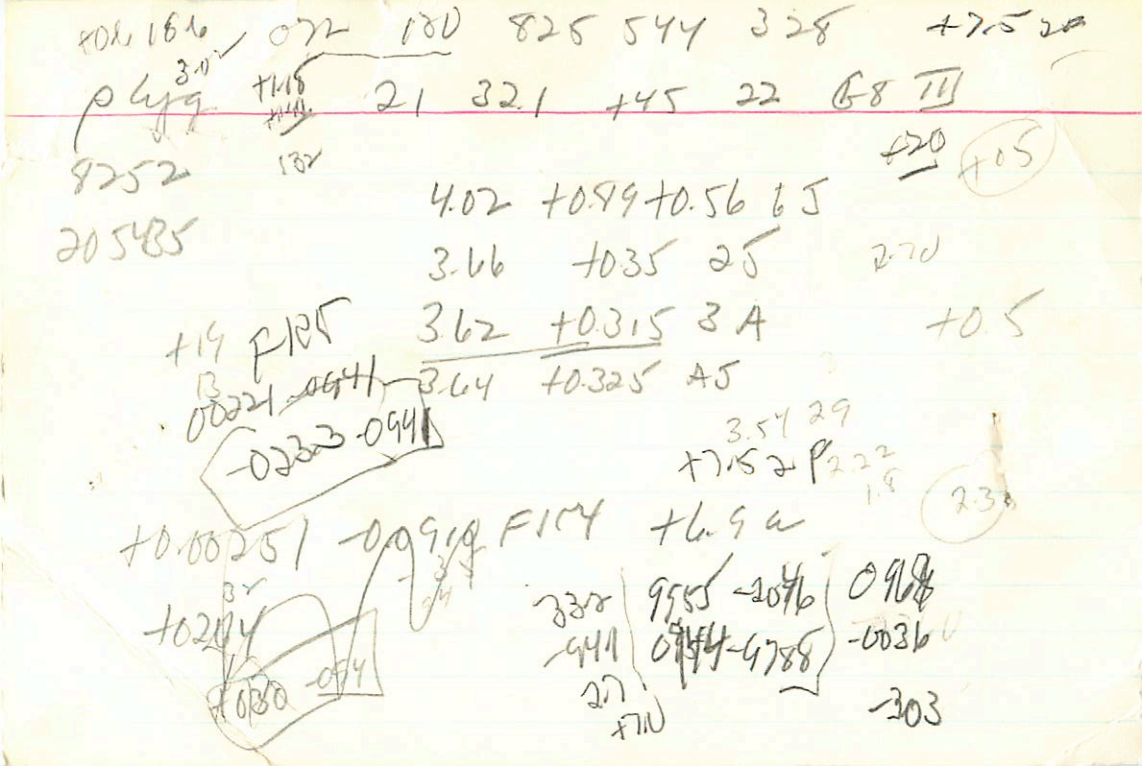
+024

9877 -2562 0411

-1592 7666 0077

9284 8228

-3716 -5683



```
                    2.700
                     35
                  7.000

q1 (U)          0.739
q2 (U)          0.673
q3 (U)          0.015
dU              -381.932
U               -13.136

q1 (V)          -0.066
q2 (V)          0.050
q3 (V)          0.997
dV              -14.940
V               6.458

q1 (W)          -0.670
q2 (W)          0.738
q3 (W)          -0.081
dW              -255.070
W               -9.413
```

+0185±4.2 −0645±3.4
+186 −074

95 21 39.8 −43 43 GOTO −21.9±0.6 6(5)

+0187 −064 6.6 +0.5 +0.09

51.197 1901.0 −43 43 27.56 1895.4

−906 3.49

50.291 24.07

15.499 15.89 1927.76

35.420 48.30

50.919 27.59

−123 98

796 26.61 493

−25 4 27.40

771 26.55 −3.39

51.329 218.26 1954.91

−20 −12

309 28.38

40.3

2080

51.040

+749

8267

41.3

45.9

21 678 351

TPeg	210459	22	07.8	+32 56	gA)	+2.08	
	31016						
HR8454	13931	4.30	+0.45	+0.18	-015	-022	GC
W13931					-021	-020	N
		-0017 77	-020 71 N30		-016	-016	B
					-017	-020	
3A (14)		-00M ±12	-018 ±1.26	G N30			
1M (4)		-0142 -0207		F12 5			
		-00163	-0133	W 50			
		-0205					
		-018 -017					

9638 2666 -9475

-300 -250 -200 -150 -100 -50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

(a) $3.0 + 1.5 - 5.5 + 1.5 - 0.5 + 1.5 - 0.5 + 2.0 - 1.0 + 1.5 - 1.0 = 1.5$

$-2.5 + 2.5 - 1.5 + 2.5 - 1.5 + 2.5 - 1.5 = -1.5$

$-1.5 + 2.5 - 1.5 + 2.5 - 1.5 + 2.5 - 1.5 = -0.5$

$-0.5 + 2.5 - 1.5 + 2.5 - 1.5 + 2.5 - 1.5 = 1.5$

$1.5 + 2.5 - 1.5 + 2.5 - 1.5 + 2.5 - 1.5 = 3.0$

-13
2/11
13 1817

(#ברס)

1/4/1

שמעון 054-6744
רחוב שבזי
תל אביב

שמעון 054-4130847
רחוב הגפן 7
כפר סבא

שמעון 054-4130847
רחוב הגפן 7
כפר סבא

(X)

שמעון 054-6744
רחוב שבזי
תל אביב

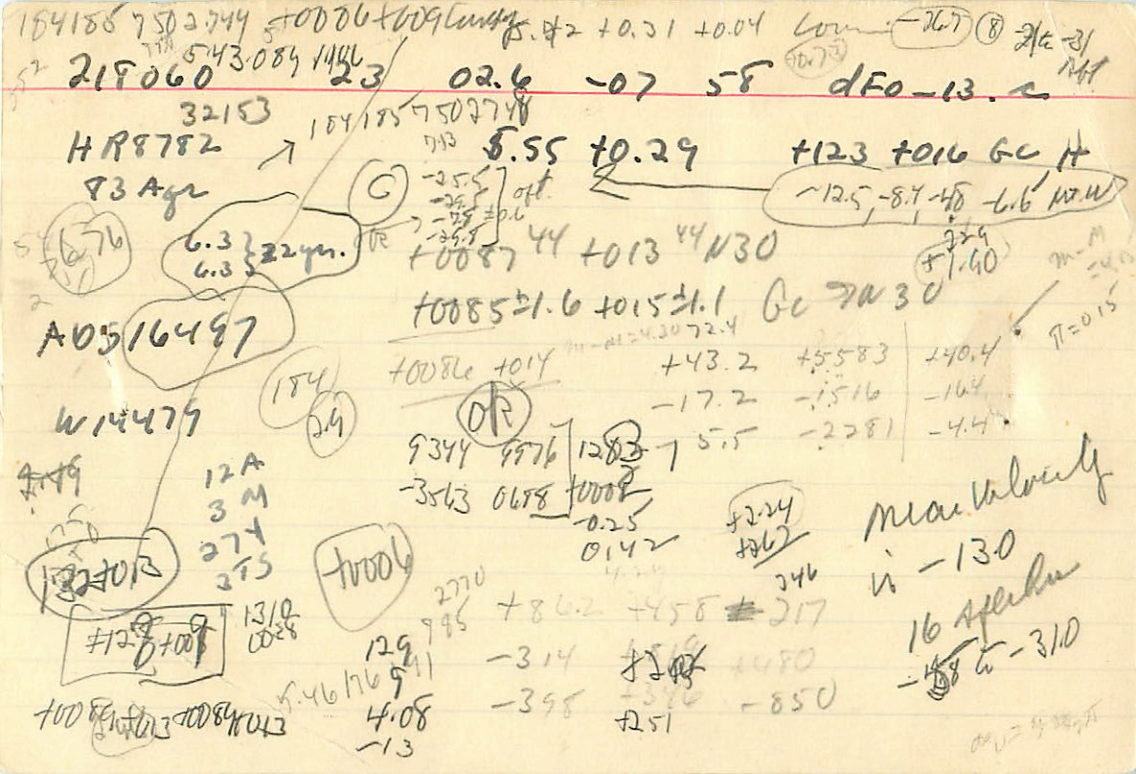
1/4/1

2 ב - ס - ס - 4

שמעון 054-6744
רחוב שבזי
תל אביב

```
M       :
MP      :
(M)  3  :  0.000
(M)  2  :  0.000
(M)  1  :  -0.699
          0.454
          -0.553

V       :
VP      :
(V)  3  :  0.000
(V)  2  :  0.635
(V)  1  :  0.750
          -0.186
```



-248 969 -139 550 +123 +014 +3.002 -2 076 ,

031 0 119002 137 564 -13.0 -12 +3 015

-2 +46 +4

+42 -18 -3

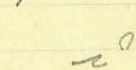
014

-2 +43 +3

+39 -18 -4

02

-5 +31 12



176

R.A. :	23.050
DEC. :	-8.000
M. R.A. :	129.000
M. DEC. :	9.000
ISTANCE :	4.080
MODULUS :	65
AD. VEL. :	-13.000
q1 (U) :	0.862
q2 (U) :	0.458
q3 (U) :	-0.216
dU :	541.726
U :	38.268
q1 (V) :	-0.315
q2 (V) :	0.819

Sun

Mon

Tue

Wed

Thu

Fri

Sat

Notes

-242 870 -699 722 -044 -014 +9.6 010 -67 -050

-011 002 -043 010 -055 -19.4 +6.9 +6.7 -1.7

12

043

+0.9 -13.1 -9.7 017

-15.9 -1.0 -3.1

+3.0 -8.9 -8.6 027

-11.5 -1.0 -5.1

-4.7 -24.0 -13.0 008

-29.4 -0.5 +2.1

21822 7
32184
14498

-0041±2.6 -023±2.6
-0041 -013 Not Pwd

±4.7 ±1.0

Grm 23 04.1 -43 47 ±9.6 m

HR 8787 -0037-013 4.30 +0.42 -044-023 GC
W14498 -0070-013 -044-012 N
4.5-7.0 M -0044-013 4.31+43 1.66 124" -043-014 P
7.71 +62 1.56 124" -044-017

4.148 1904.6 -43 47 2739 1898.4
186 1.19
4.334 26.20

43.5

4.223 26.73 1939.63 96.28
-33 -4 48.1
.190 26.77 26.87 49.7
314 70N8 -.67
4.157 -177 -16
4.106 26.49
4043 22.18
-33 4.124 26.83 1556.63
-14
26.97

-242870 -6.82 7.22 -044 -017 +9.6 012 -6.6 -057

-011 003 -043 012 -109 -190 +6.9 +6.7 -1.7 03

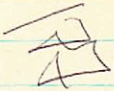
+3.1 -9.0 -8.5

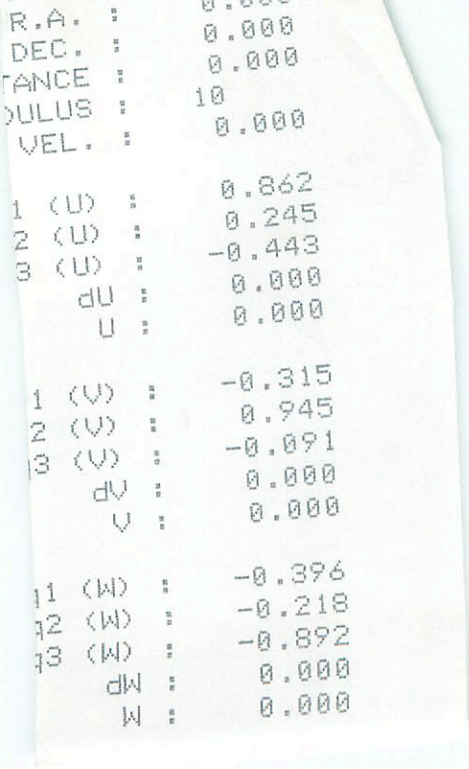
-10.7 -1.3 -5.3

02

+1.3 -11.2 -9.4

-14.2 +1.5 -3.7




R.A. :
0.000
DEC. :
0.000
TANCE :
10
OULUS :
0.000
VEL. :
1 (U) :
0.862
2 (U) :
0.245
3 (U) :
-0.443
dU :
0.000
U :
0.000
1 (V) :
-0.315
2 (V) :
0.945
3 (V) :
-0.091
dV :
0.000
V :
0.000
W1 (W) :
-0.396
W2 (W) :
-0.218
W3 (W) :
-0.892
dW :
0.000
W :
0.000

Mt Ruth (4)

HQ 223466 23 47.2 -25 37 +16.5 ±4

6.42 +0.13 +1.58 AB = +8.1 (3)

-026 -023 ac+

+4

-056 998 -432 902 -026 -023 +16.5 010 -7.1 -098

-0015 000 -026 010 -052 -123 +14.9 +14.9 -0.8 015

+11.4 -9.8 -13.6
-14.0 -0.3 -14.7

14.366
103
14.263 1848.7
17.808
71

-0020 ±0.7
-0017
0018
4
0014

-022 ±7.8
-019
-020
-1
-021

33.15 1894.1
1.16
31.97

56.547
17.808
14.355
-044
31.16
-0016
380

-015 -021

52.20
-20.18
33.02
+06
32.96
+28
32.68
-71

1533.57

-6 638 23 0-31 -6 25

917

960 -355

956 987
90 994 Benny

960
846

8224 -7351 0-79
5188 -6774 050

78922 9 07.5 -30 10 A4 [illegible]

-8 Vm

3644 5.54 0.4

BL 17" Exp Jm # [illegible] -0476 PIC

087 205 [illegible] 2854

F316 1212 0493 0475

3635 9926 0815

130 705 14 470 470 15 no ul

700 2748 5.38

1.24 1.41 089 087

1.281 1073 415

0057 0038 089

0056 089

0.13

9781 5279 1052

2001 8443 ul

5.32

5751 15 02.3 +12 40

G167

SA 84-354

+24 .78

242 -164

734 7991 295

-140 -012 010

4 4516 +39 09

30793 4 52.4 +39 17

+29.109V

+0044 ~040

057 -040

9534 4342

-3017 ~~8049~~

~~8484~~

4 129 +56 28

27227 4 210 +56 47

+56,504

-0004 -014

29122 df 33.2 #26 57

#36.614

-0.0008-0.05

9570 4576
-7902 -8892

3 54.7 +56 07

4 08.5 +56 23

75150

+55.643

+0056 0045

-047 -046

8044 5882

-5934 -8089