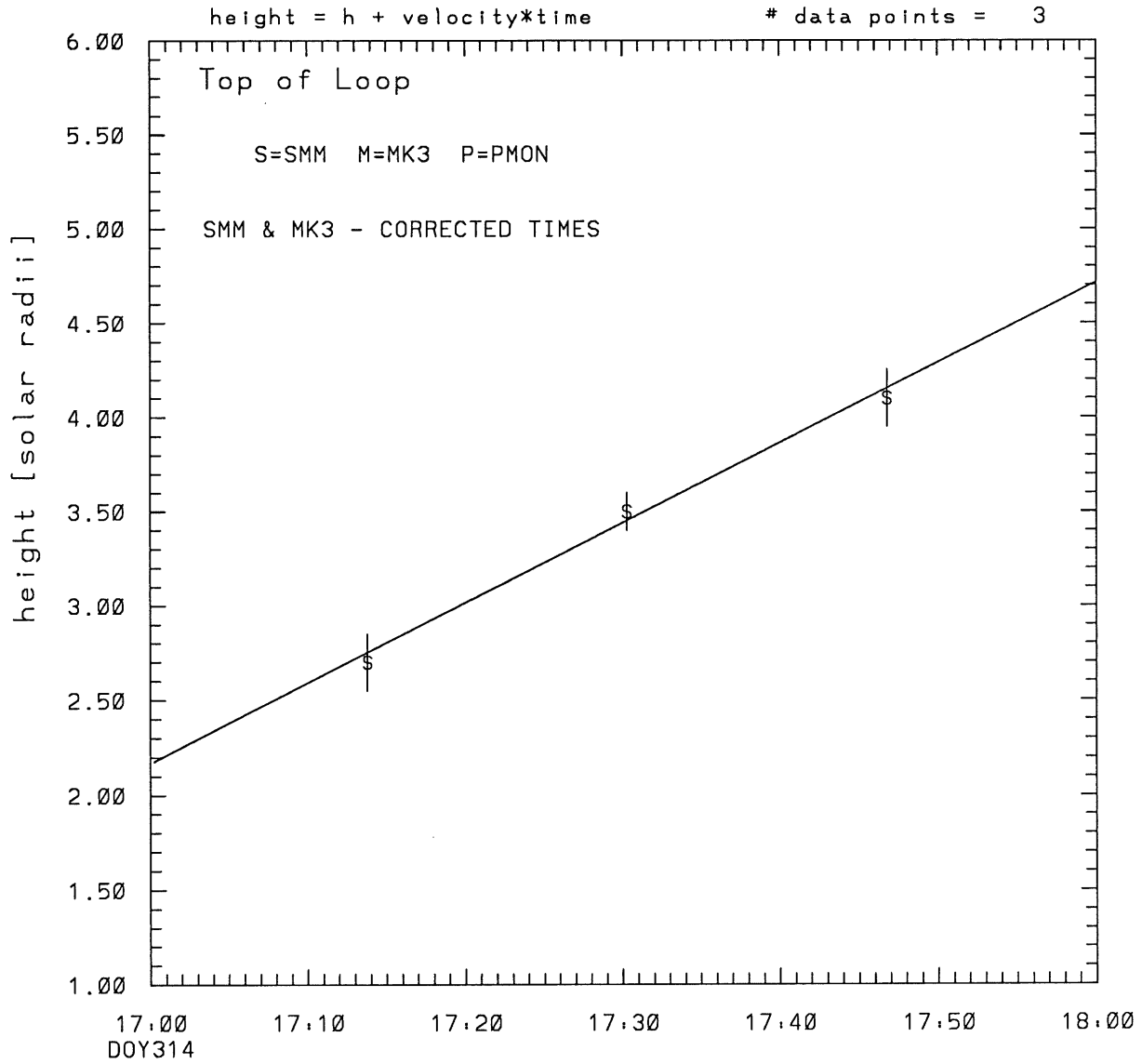
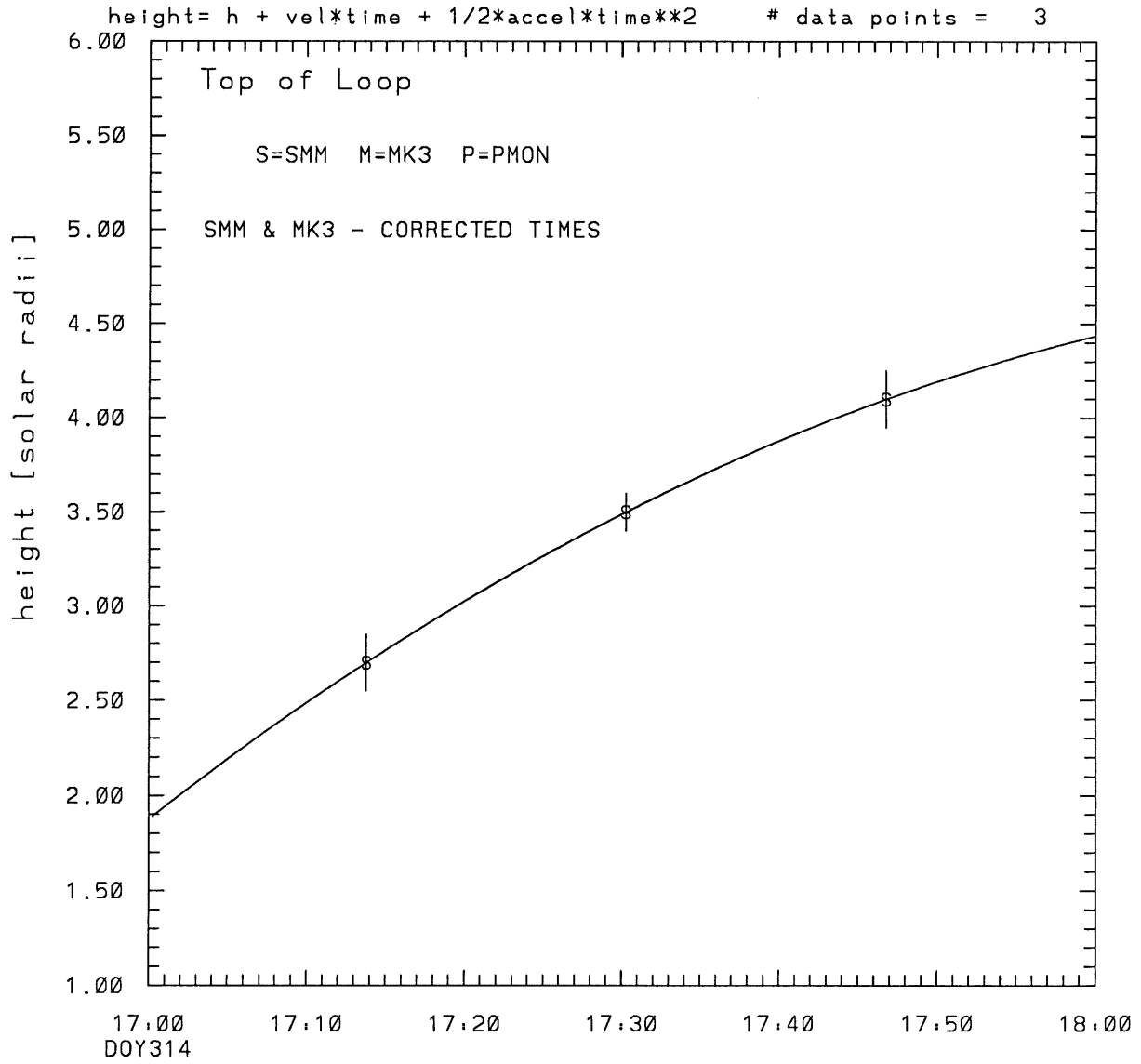


SMM C/P 1989 DOY314 308 +/- 0 degrees



tstart=DOY314 16:34 +/- 1.8 [min.]  
radial velocity= 492. +/- 36. [km/sec]

SMM C/P 1989 DOY314 308 +/- 0 degrees

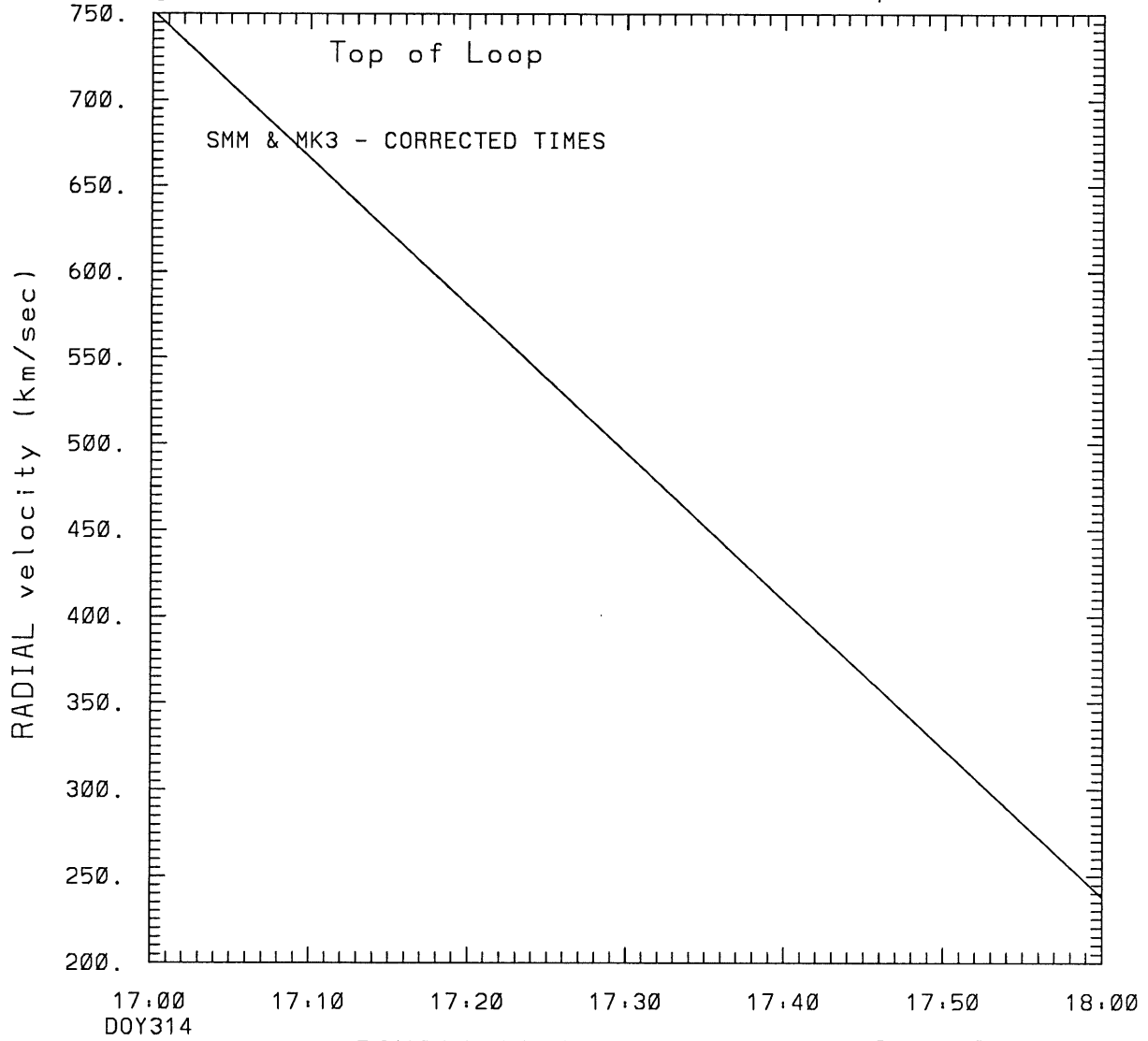


tstart=DOY314 16:49 +/- 0.0 [min.]

radial acceleration = -0.1427 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1989 DOY314 308 +/- 0 degrees

height =  $h + vel*time + 1/2*accel*time**2$  # data points = 3



tstart=DOY314 16.49 +/- 0.0 [min.]

radial acceleration=-.143E+00 km/sec\*\*2



\*\*\*\*\*  
This is a 1 order run  
\*\*\*\*\*

\*\*\*\*\*  
INPUT:  
\*\*\*\*\*

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	314	17:13:48	2.70 +/- 0.15	308.0 +/- 0.5			SMM
1989	314	17:30:17	3.50 +/- 0.10	308.0 +/- 1.0			SMM
1989	314	17:46:47	4.10 +/- 0.15	308.0 +/- 1.0			SMM

\*\*\*\*\*  
Structure being measured:  
Top of Loop  
\*\*\*\*\*

\*\*\*\*\*  
OUTPUT:  
\*\*\*\*\*

START TIME:

Event began at  $t = 0 + -0.275E+02 \pm 0.176E+01$  [minutes]  
In more convenient units:  
Event began at DOY 314 16:34  $\pm 0.176E+01$  [minutes]

Origin defined at DOY314 17: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 492. +/- 36. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.217E+01 +/- 0.101E+00 [solar radii]  
c(2) = 0.424E-01 +/- 0.313E-02 [radii/min]  
c(2) = 0.492E+03 +/- 0.363E+02 [km/sec]  
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min\*\*2]  
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec\*\*2]

The computed ERRORS in coefficients [BEVINGTON] are:

error in c(1) = 0.12613E+00 [radii] see Bevington pg. 114  
error in c(2) = 0.38050E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00 [radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 308. +/- 0. [degrees]  
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]  
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]  
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec\*\*2]

The RADIAL velocity at 17:13 = 492. km/sec

The RADIAL velocity at 17:30 = 492. km/sec

The RADIAL velocity at 17:46 = 492. km/sec

\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.70  
Standard Deviation in start time measurement = 0.135E+02  
Error in time = 0.20909E+01 using best fit method  
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.376E-02  
Reduced Chi Squared = 0.157E-01  
Chi Squared = 0.157E-01  
The probability for exceeding chi square = 0.951E+00

The correlation coefficient = 0.997E+00  
The probability that no LINEAR correlation exists between the variables = 0.52581  
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

\*\*\*\*\*  
This is a 2 order run  
\*\*\*\*\*

\*\*\*\*\*  
INPUT:  
\*\*\*\*\*

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	314	17:13:48	2.70 +/-	0.15	308.0 +/-	0.5	SMM
1989	314	17:30:17	3.50 +/-	0.10	308.0 +/-	1.0	SMM
1989	314	17:46:47	4.10 +/-	0.15	308.0 +/-	1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of Loop  
\*\*\*\*\*

\*\*\*\*\*  
OUTPUT:  
\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.126E+02 +/- 0.000E+00 [minutes]  
In more convenient units:  
Event began at DOY 314 16:49 +/- 0.000E+00 [minutes]

Origin defined at DOY314 17: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.143E+00 +/- 0.877E-06 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =	0.188E+01 +/-	0.199E-05 [solar radii]
c(2) =	0.648E-01 +/-	0.140E-06 [radii/min]
c(2) =	0.752E+03 +/-	0.162E-02 [km/sec]
c(3) =	-0.369E-03 +/-	0.227E-08 [radii/min**2]
c(3) =	-0.143E+00 +/-	0.877E-06 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.0000E+00 +/- 0.0000E+00[radians/sec\*\*2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) =	308. +/-	0. [degrees]
a(2) =	0.000E+00 +/-	0.000E+00 [degrees/min]
a(2) =	0.000E+00 +/-	0.000E+00 [rad/sec]
a(3) =	0.000E+00 +/-	0.000E+00 [degrees/min**2]
a(3) =	0.000E+00 +/-	0.000E+00 [rad/sec**2]

The RADIAL velocity at 17:13 = 634. km/sec

The RADIAL velocity at 17:30 = 492. km/sec

The RADIAL velocity at 17:46 = 351. km/sec

\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

Number data points = number of coefficients. No error analysis is possible.  
Correlation coefficient is not computable!