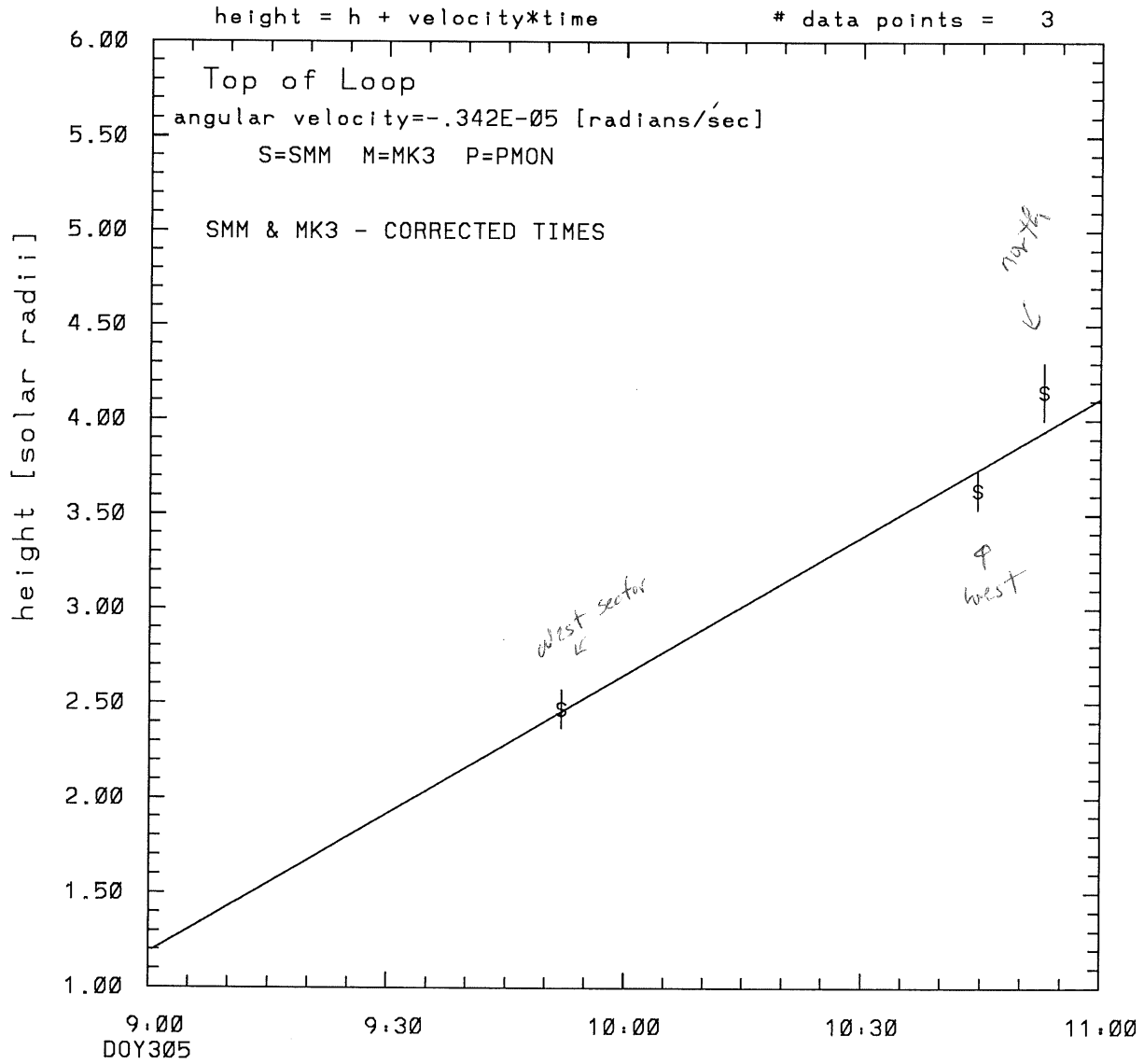


SMM C/P 1988 DOY305 332 +/- 3 degrees

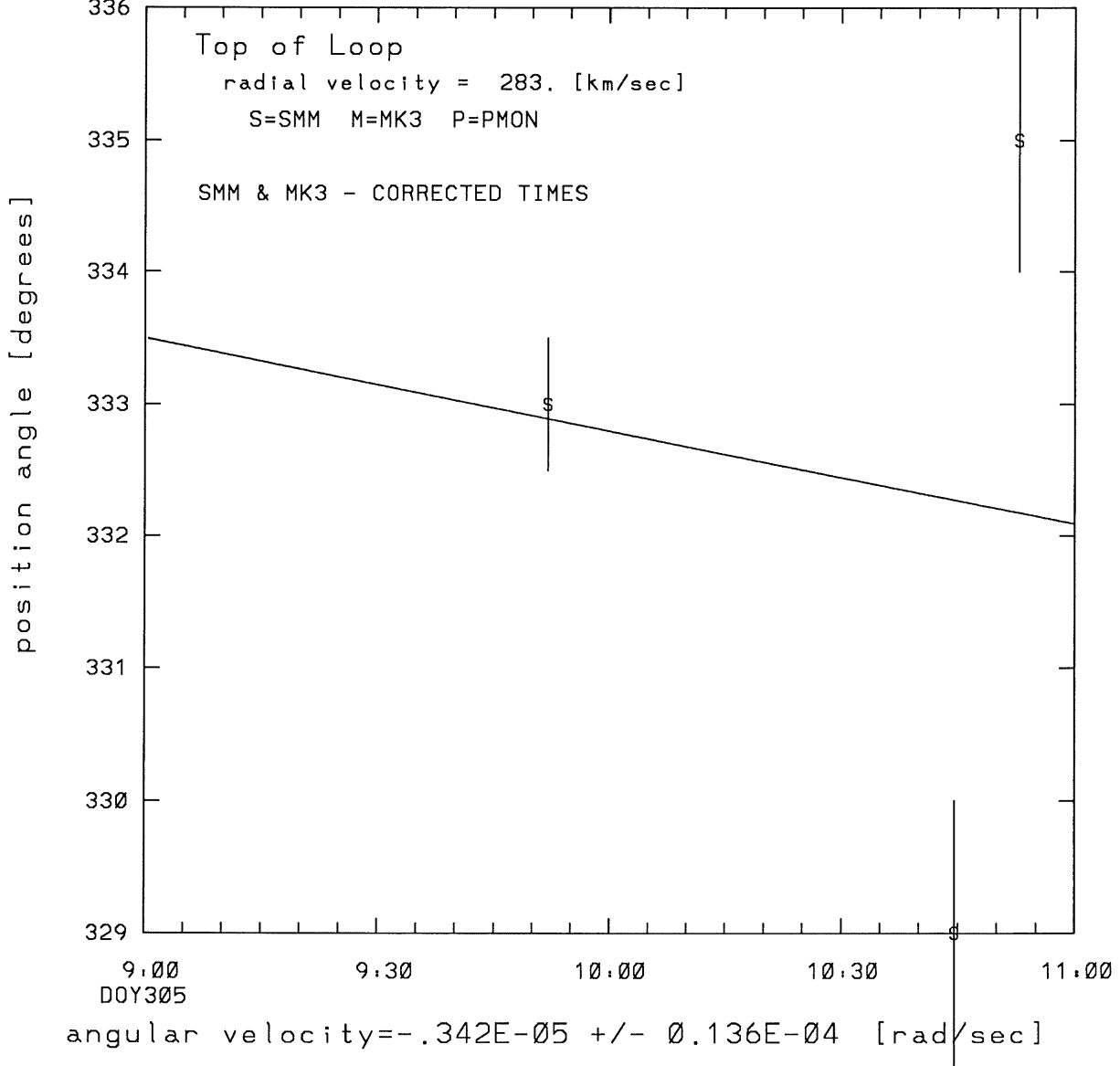


tstart=DOY305 8:54 +/- 0.8 [min.]
radial velocity= 283. +/- 34. [km/sec]

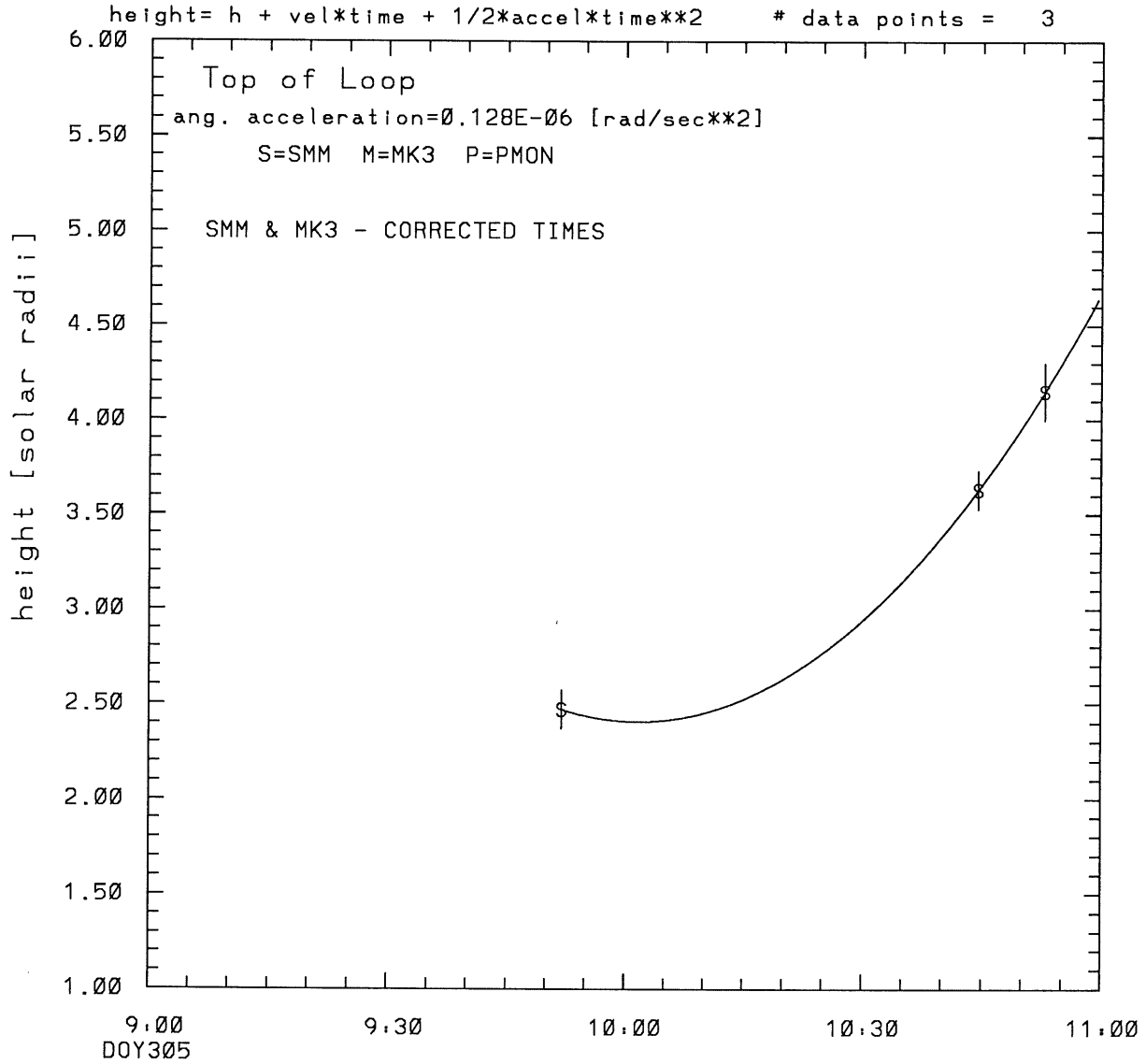
Since sectors may be
off (misaligned) between
last 2 points do
NOT use 2nd order
~~fit~~ fit.

SMM C/P 1988 DOY305 332 +/- 3 degrees

angle = initial angle + angular velocity * time # data points = 3



SMM C/P 1988 DOY305 332 +/- 3 degrees



tstart=DOY305 10: 1 from derivative=0

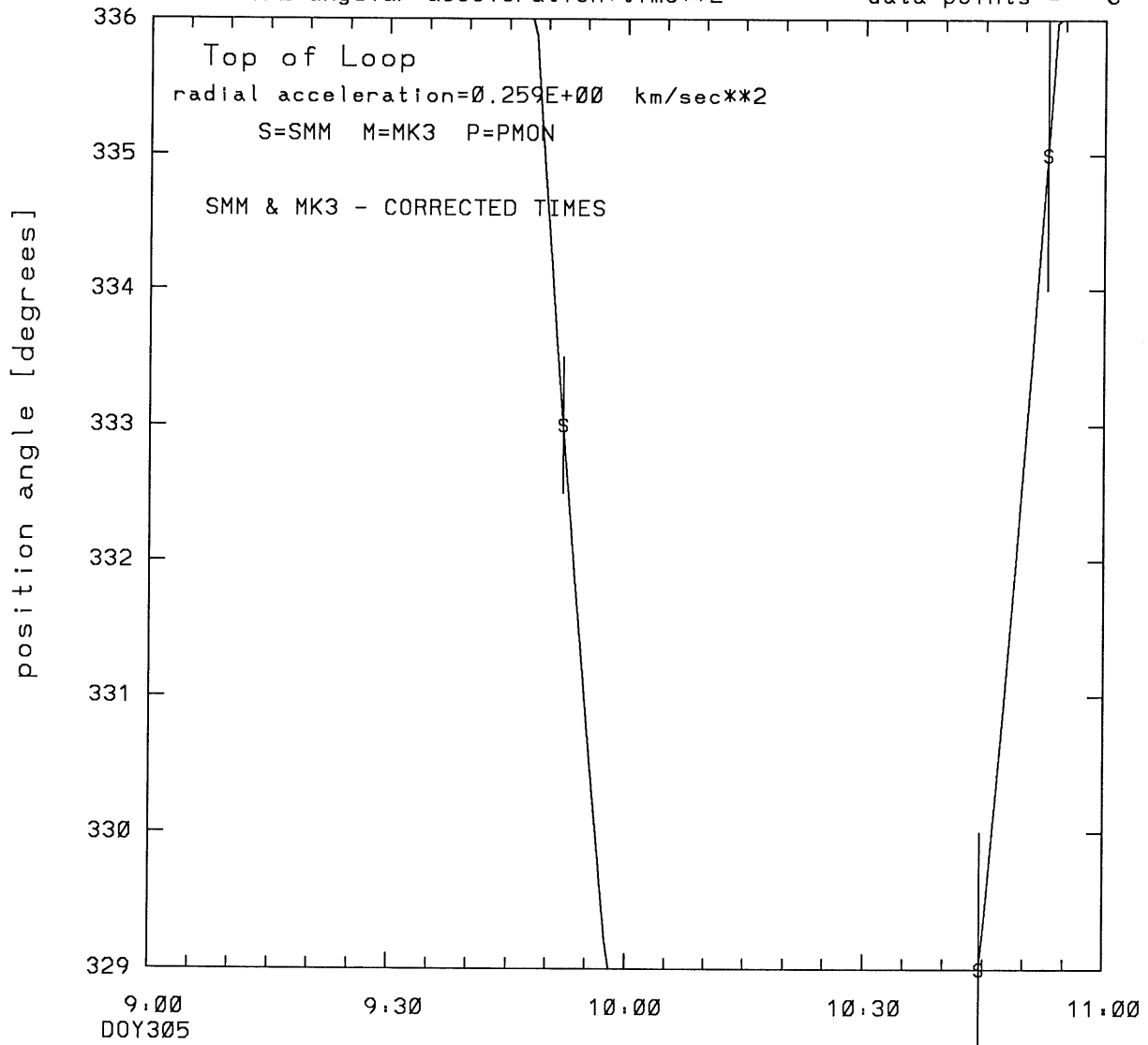
Event begins at 2.41 Solar Radii

radial acceleration = 0.2587 ± 0.0000 [km/sec**2]

SMM C/P 1988 DOY305 332 +/- 3 degrees

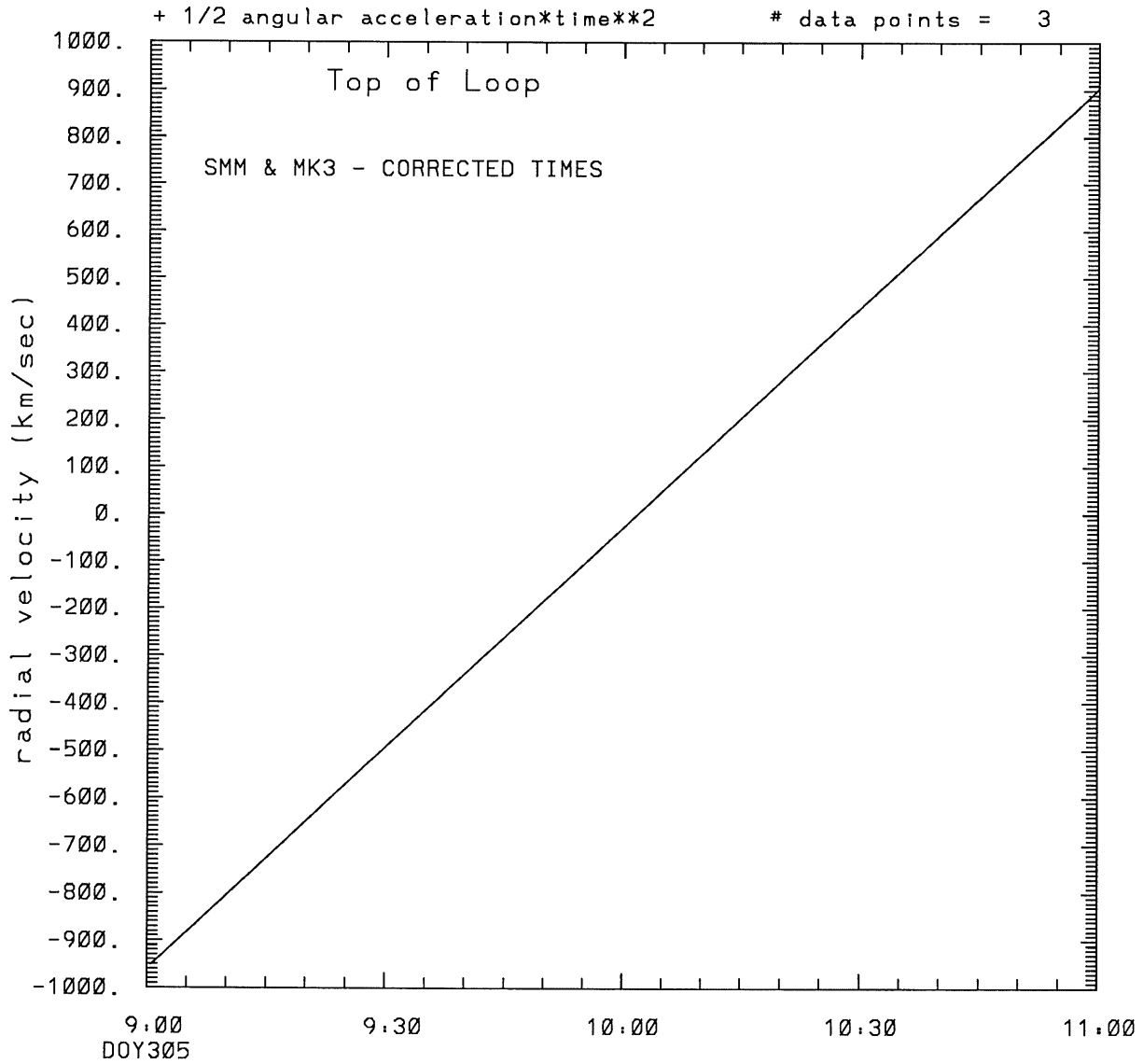
angle = initial angle + angular velocity*time
+ 1/2 angular acceleration*time**2

data points = 3



Event begins at 2.41 Solar Radii
angular acceleration = 0.128E-06 +/- 0.000E+00 [rad/sec**2]

SMM C/P 1988 DOY305 332 +/- 3 degrees



tstart=DOY305 10: 1 from derivative=0

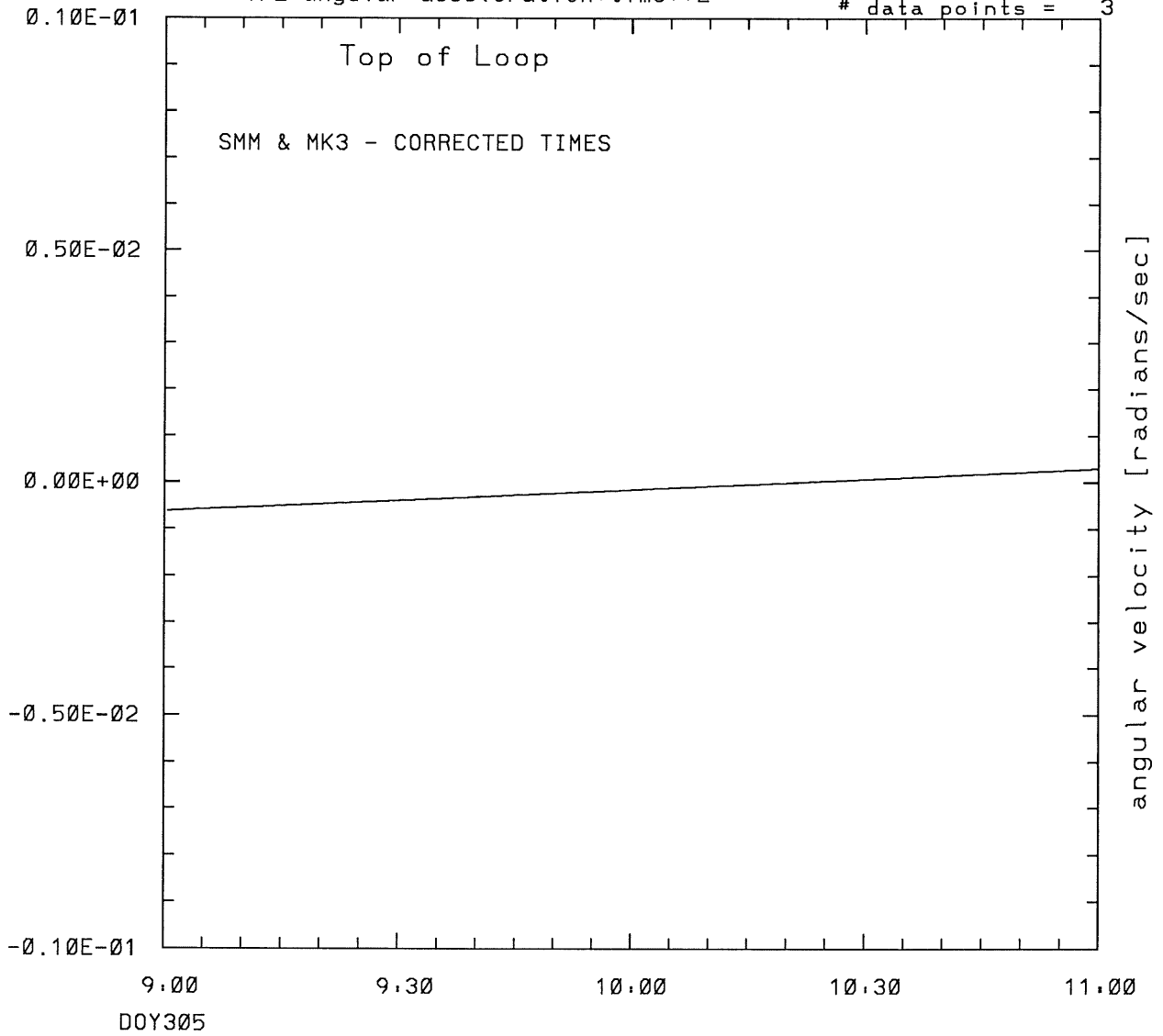
Event begins at 2.41 Solar Radii

radial acceleration=0.259E+00 km/sec**2

SMM C/P 1988 DOY305 332 +/- 3 degrees

$$\text{angle} = \text{initial angle} + \text{angular velocity} * \text{time} + \frac{1}{2} \text{angular acceleration} * \text{time} ** 2$$

data points = 3



angular acceleration = $0.128E-06 \pm 0.000E+00$ [rad/sec**2]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	305	9:52: 2 ^(w)	2.47 +/- 0.10	333.0 +/- 0.5			SMM
1988	305	10:44:34 ^(w)	3.63 +/- 0.10	329.0 +/- 1.0			SMM
1988	305	10:52:51 ⁽ⁿ⁾	4.15 +/- 0.15	335.0 +/- 1.0			SMM

Structure being measured:
Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + -0.757E+01 +/- 0.828E+00 [minutes]
In more convenient units:
Event began at DOY 305 8:54 +/- 0.828E+00 [minutes]
Origin defined at DOY305 9: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 283. +/- 34. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.118E+01 +/- 0.262E+00 [solar radii]
c(2) = 0.244E-01 +/- 0.294E-02 [radii/min]
c(2) = 0.283E+03 +/- 0.341E+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)= 0.47524E+00 [radii] see Bevington pg. 114
error in c(2)= 0.50683E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = -0.3417E-05 +/- 0.1355E-04[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 333. +/- 4. [degrees]
a(2) = -0.117E-01 +/- 0.466E-01 [degrees/min]
a(2) = -0.342E-05 +/- 0.136E-04 [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 9:52 = 283. km/sec

The RADIAL velocity at 10:44 = 283. km/sec

The RADIAL velocity at 10:52 = 283. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.86
Standard Deviation in start time measurement = 0.269E+02
Error in time = 0.96824E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.193E-01
Reduced Chi Squared = 0.156E+00
Chi Squared = 0.156E+00
The probability for exceeding chi square = 0.890E+00

The correlation coefficient = 0.984E+00
The probability that no LINEAR correlation exists between the variables = 0.1153]
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

This is a 2 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	305	9:52: 2	2.47 +/-	0.10	333.0 +/-	0.5	SMM
1988	305	10:44:34	3.63 +/-	0.10	329.0 +/-	1.0	SMM
1988	305	10:52:51	4.15 +/-	0.15	335.0 +/-	1.0	SMM

Structure being measured:
Top of Loop

OUTPUT:

START TIME:

tstart=DOY305 10: 1 from derivative = 0
Event begins at 2.41 Solar Radii
Origin defined at DOY305 9: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.259E+00 +/- 0.314E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.496E+01 +/- 0.461E-05 [solar radii]
c(2) = -0.827E-01 +/- 0.130E-06 [radii/min]
c(2) = -0.959E+03 +/- 0.151E-02 [km/sec]
c(3) = 0.669E-03 +/- 0.812E-09 [radii/min**2]
c(3) = 0.259E+00 +/- 0.314E-06 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.1276E-06 +/- 0.0000E+00[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 49. +/- 0. [degrees]
a(2) = -0.214E+01 +/- 0.000E+00 [degrees/min]
a(2) = -0.622E-03 +/- 0.000E+00 [rad/sec]
a(3) = 0.132E-01 +/- 0.000E+00 [degrees/min**2]
a(3) = 0.128E-06 +/- 0.000E+00 [rad/sec**2]

The RADIAL velocity at 9:52 = -152. km/sec

The RADIAL velocity at 10:44 = 664. km/sec

The RADIAL velocity at 10:52 = 793. 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!