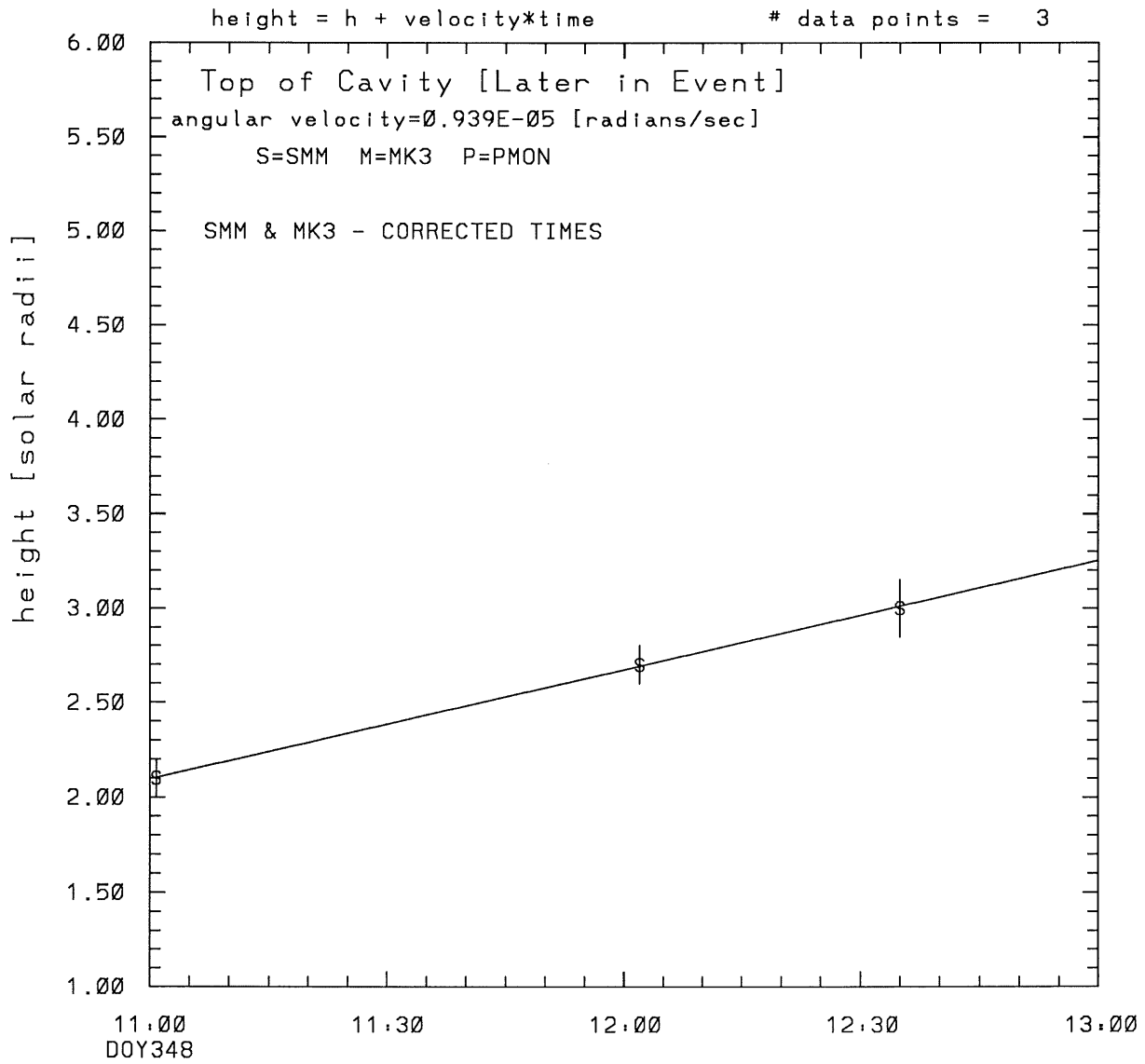


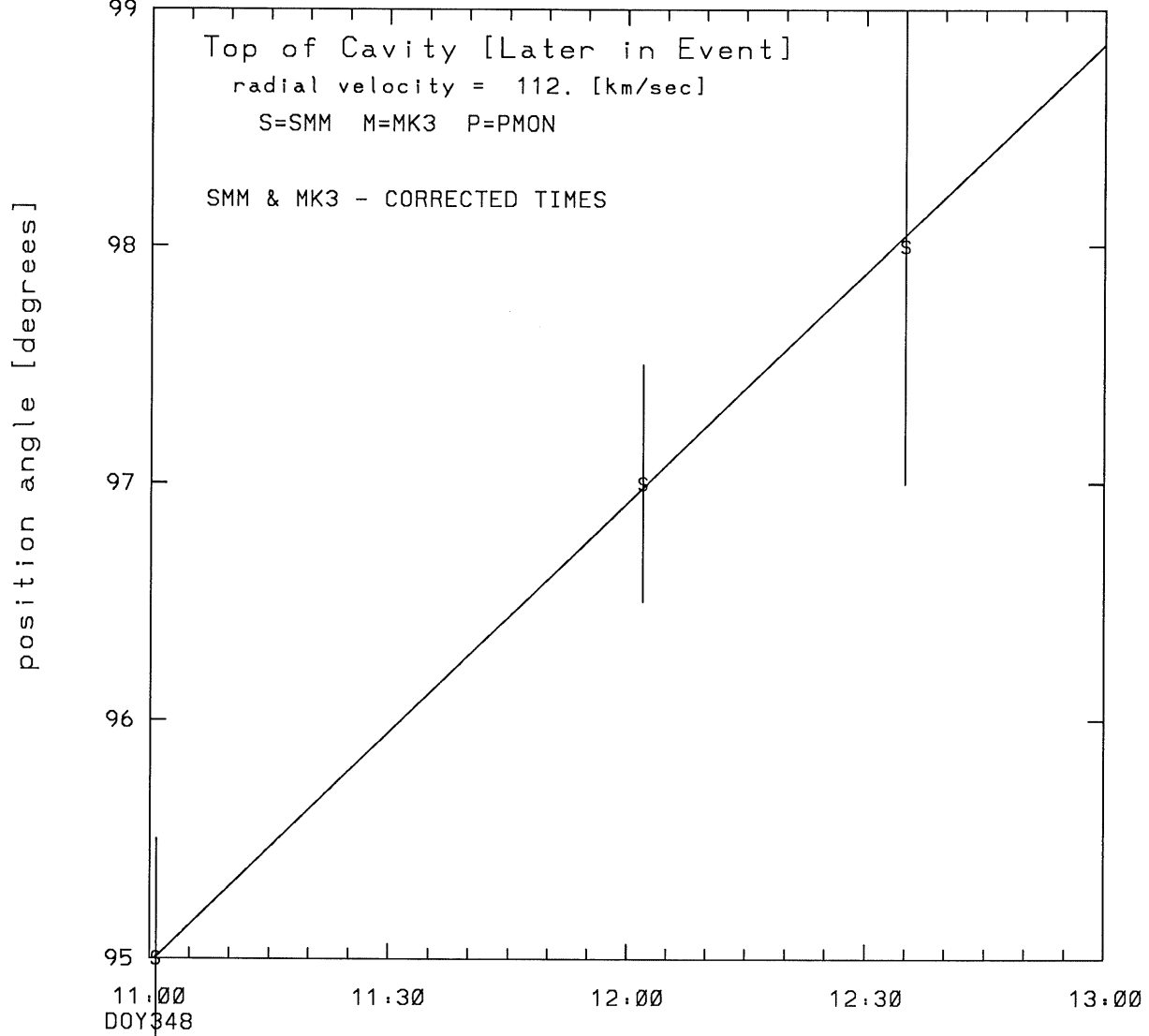
SMM C/P 1987 DOY348 96 +/- 2 degrees



tstart=DOY348 9: 8 +/- 1.1 [min.]
radial velocity= 112. +/- 2. [km/sec]

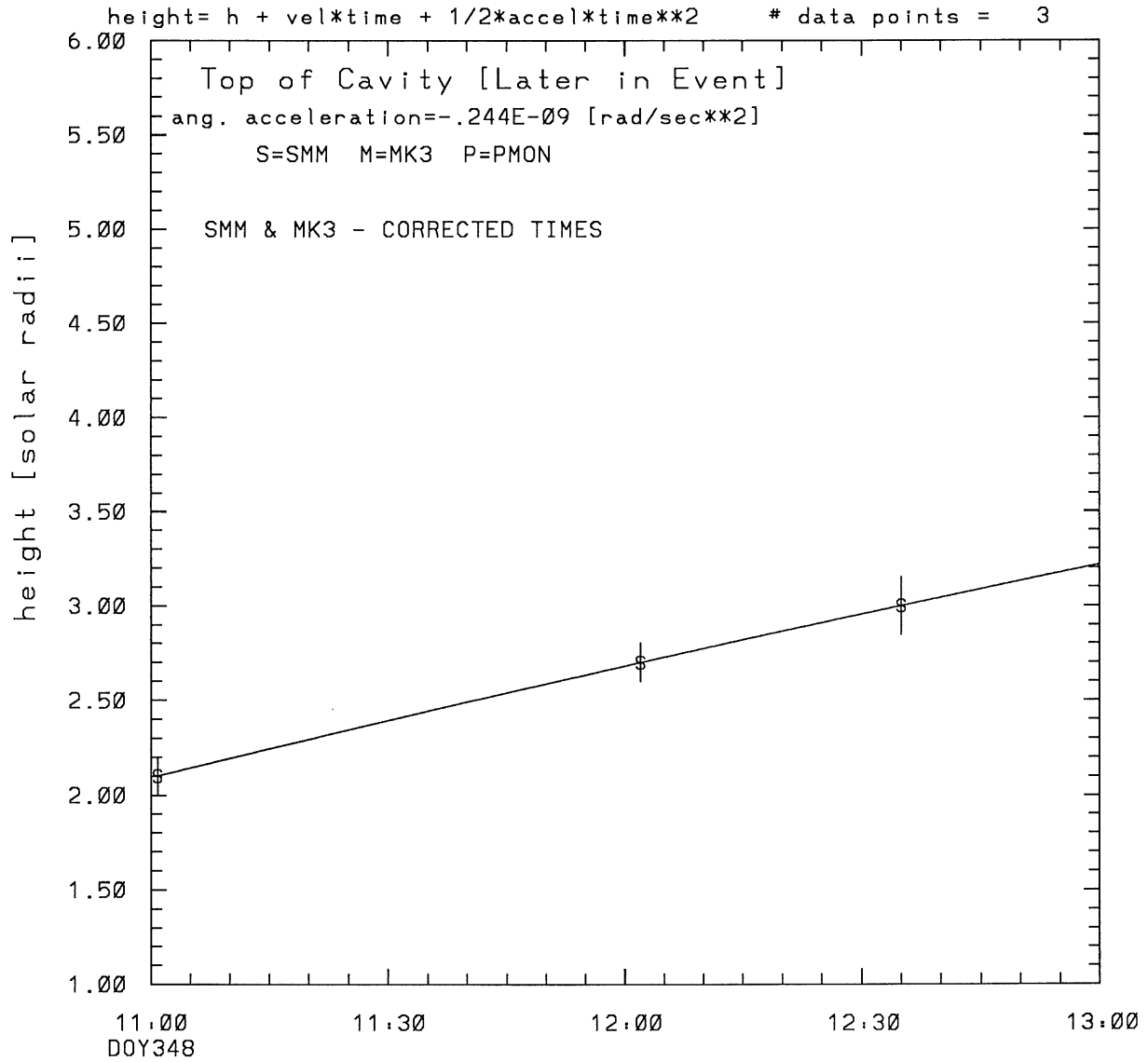
SMM C/P 1987 DOY348 96 +/- 2 degrees

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



tstart=DOY348 9.8 +/- 1.1 [min.]
angular velocity=0.939E-05 +/- 0.119E-06 [rad/sec]

SMM C/P 1987 DOY348 96 +/- 2 degrees



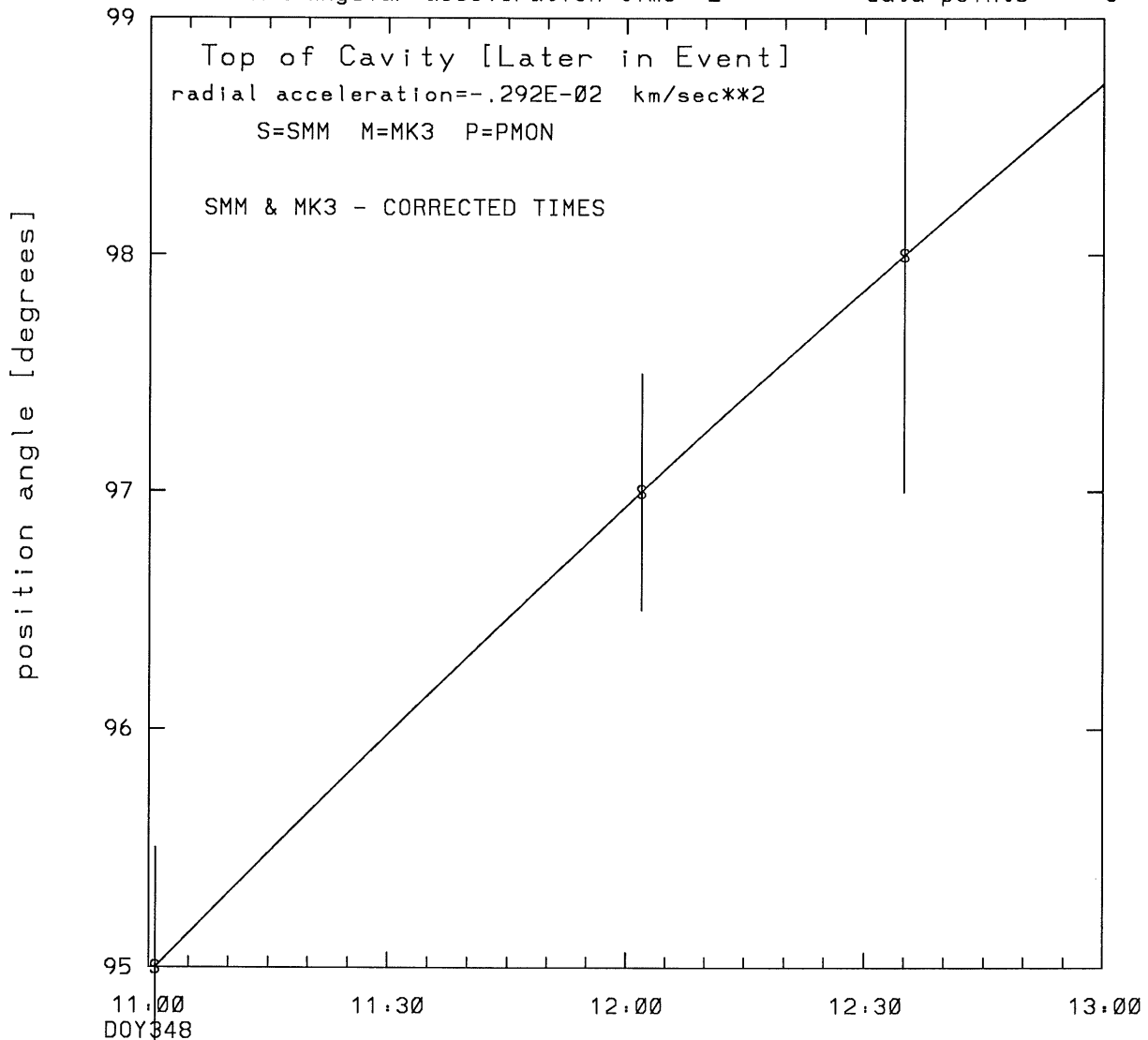
tstart=DOY348 9:21 +/- 0.0 [min.]

radial acceleration = $-0.0029 +/- 0.0000$ [km/sec**2]

SMM C/P 1987 DOY348 96 +/- 2 degrees

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

data points = 3

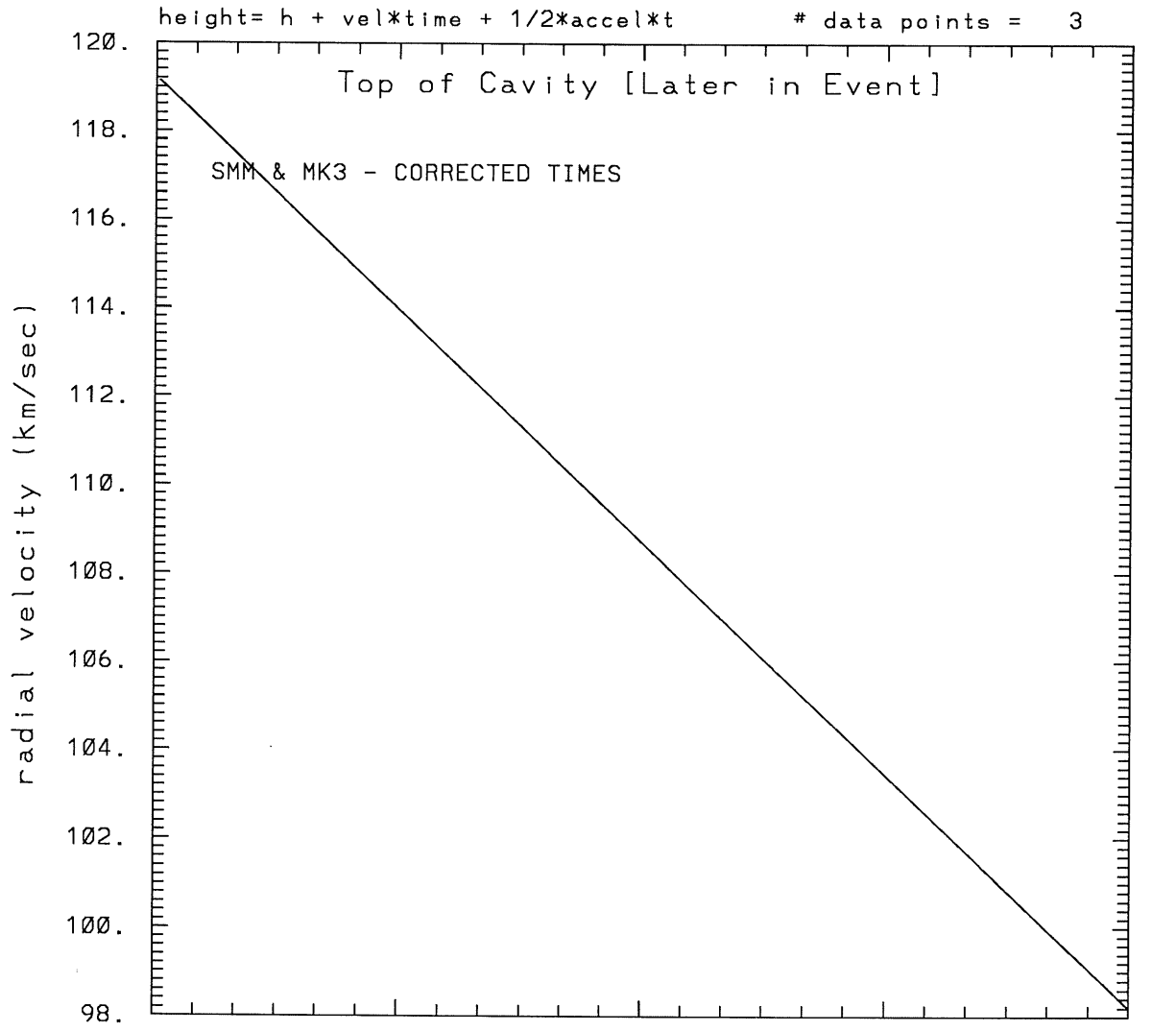


11:00 DOY348 11:30 12:00 12:30 13:00

tstart=DOY348 9.21 +/- 0.0 [min.]

angular acceleration = $-.244E-09$ +/- $0.638E-12$ [rad/sec**2]

SMM C/P 1987 DOY348 96 +/- 2 degrees



11.00
DOY348

11.30

12.00

12.30

13.00

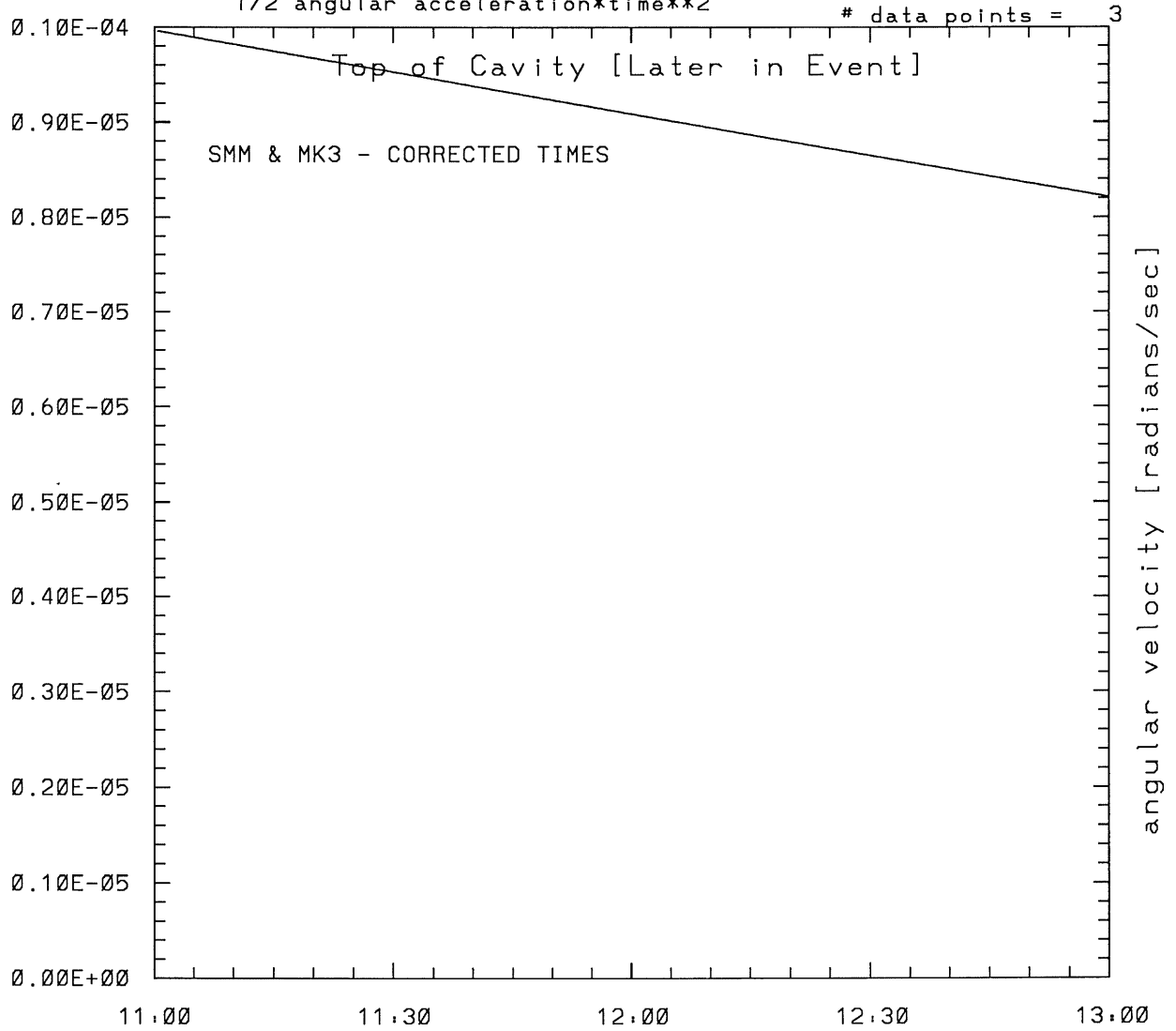
tstart=DOY348 9.21 +/- 0.0 [min.]

radial acceleration=-.292E-02 km/sec**2

SMM C/P 1987 DOY348 96 +/- 2 degrees

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

data points = 3



DOY348

tstart=DOY348 9:21 +/- 0.0 [min.]
angular acceleration=-.244E-09 +/-
0.638E-12 [rad/sec**2]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1987	348	11: 0:48	2.10 +/-	0.10	95.0 +/-	0.5	SMM
1987	348	12: 2: 0	2.70 +/-	0.10	97.0 +/-	0.5	SMM
1987	348	12:35: 0	3.00 +/-	0.15	98.0 +/-	1.0	SMM

Structure being measured:
Top of Cavity [Later in Event]

OUTPUT:

START TIME:

Event began at $t = 0 + -0.114E+03 +/- 0.107E+01$ [minutes]
In more convenient units:
Event began at DOY 348 9: 8 +/- 0.107E+01 [minutes]
Origin defined at DOY348 11: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 112. +/- 2. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.209E+01 +/- 0.736E-02 [solar radii]
c(2) = 0.964E-02 +/- 0.130E-03 [radii/min]
c(2) = 0.112E+03 +/- 0.151E+01 [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)= 0.12904E-01 [radii] see Bevington pg. 114
error in c(2)= 0.19701E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.9390E-05 +/- 0.1187E-06[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 95. +/- 0. [degrees]
a(2) = 0.323E-01 +/- 0.408E-03 [degrees/min]
a(2) = 0.939E-05 +/- 0.119E-06 [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 11: 0 = 112. km/sec

The RADIAL velocity at 12: 2 = 112. km/sec

The RADIAL velocity at 12:35 = 112. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.46
Standard Deviation in start time measurement = 0.390E+02
Error in time = 0.13813E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.692E-04
Reduced Chi Squared = 0.464E-03
Chi Squared = 0.464E-03
The probability for exceeding chi square = 0.993E+00

The correlation coefficient = 0.100E+01
The probability that no LINEAR correlation exists between the variables = 0.1208
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
1987	348	11: 0:48	2.10 +/-	0.10	95.0 +/-	0.5	SMM
1987	348	12: 2: 0	2.70 +/-	0.10	97.0 +/-	0.5	SMM
1987	348	12:35: 0	3.00 +/-	0.15	98.0 +/-	1.0	SMM

Structure being measured:
Top of Cavity [Later in Event]

OUTPUT:

START TIME:

Event began at t = 0 + -0.990E+02 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 348 9:21 +/- 0.000E+00 [minutes]
Origin defined at DOY348 11: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.292E-02 +/- 0.611E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.209E+01 +/- 0.227E-04 [solar radii]
c(2) = 0.103E-01 +/- 0.139E-05 [radii/min]
c(2) = 0.119E+03 +/- 0.161E-01 [km/sec]
c(3) = -0.755E-05 +/- 0.158E-07 [radii/min**2]
c(3) = -0.292E-02 +/- 0.611E-05 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= -0.2440E-09 +/- 0.6382E-12[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 95. +/- 0. [degrees]
a(2) = 0.343E-01 +/- 0.539E-05 [degrees/min]
a(2) = 0.997E-05 +/- 0.157E-08 [rad/sec]
a(3) = -0.252E-04 +/- 0.658E-07 [degrees/min**2]
a(3) = -0.244E-09 +/- 0.638E-12 [rad/sec**2]

The RADIAL velocity at 11: 0 = 119. km/sec

The RADIAL velocity at 12: 2 = 108. km/sec

The RADIAL velocity at 12:35 = 103. 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!