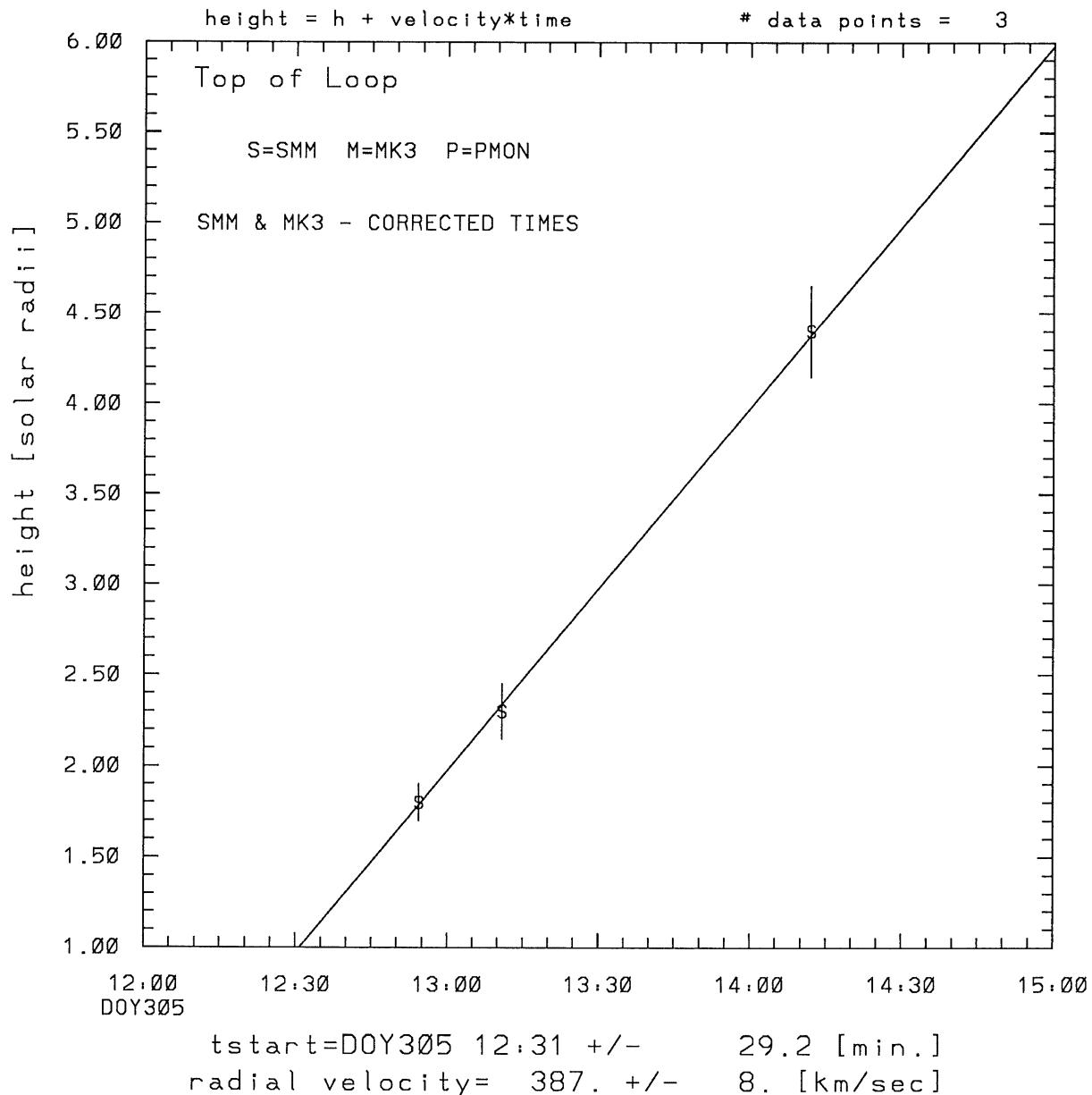
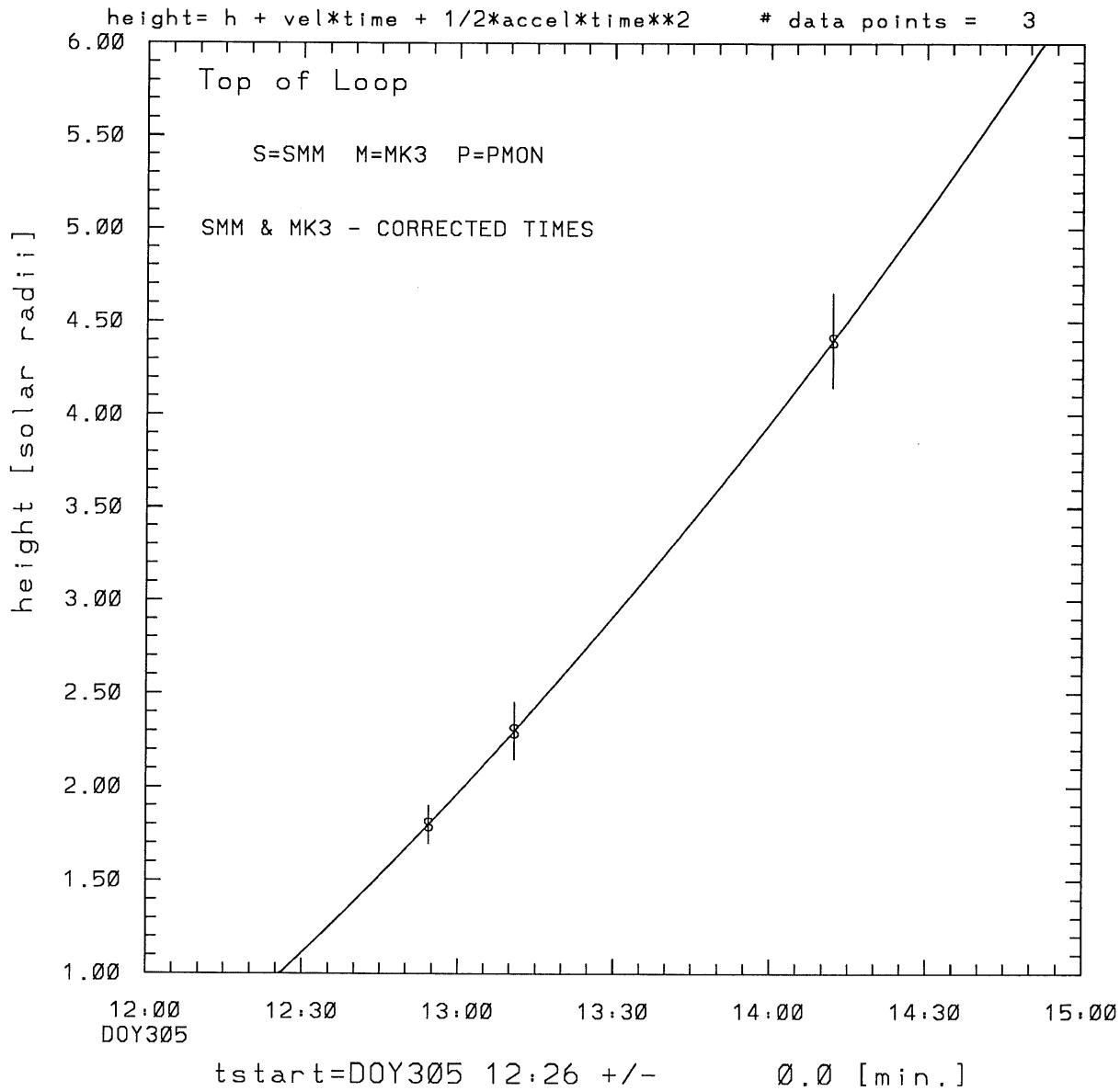




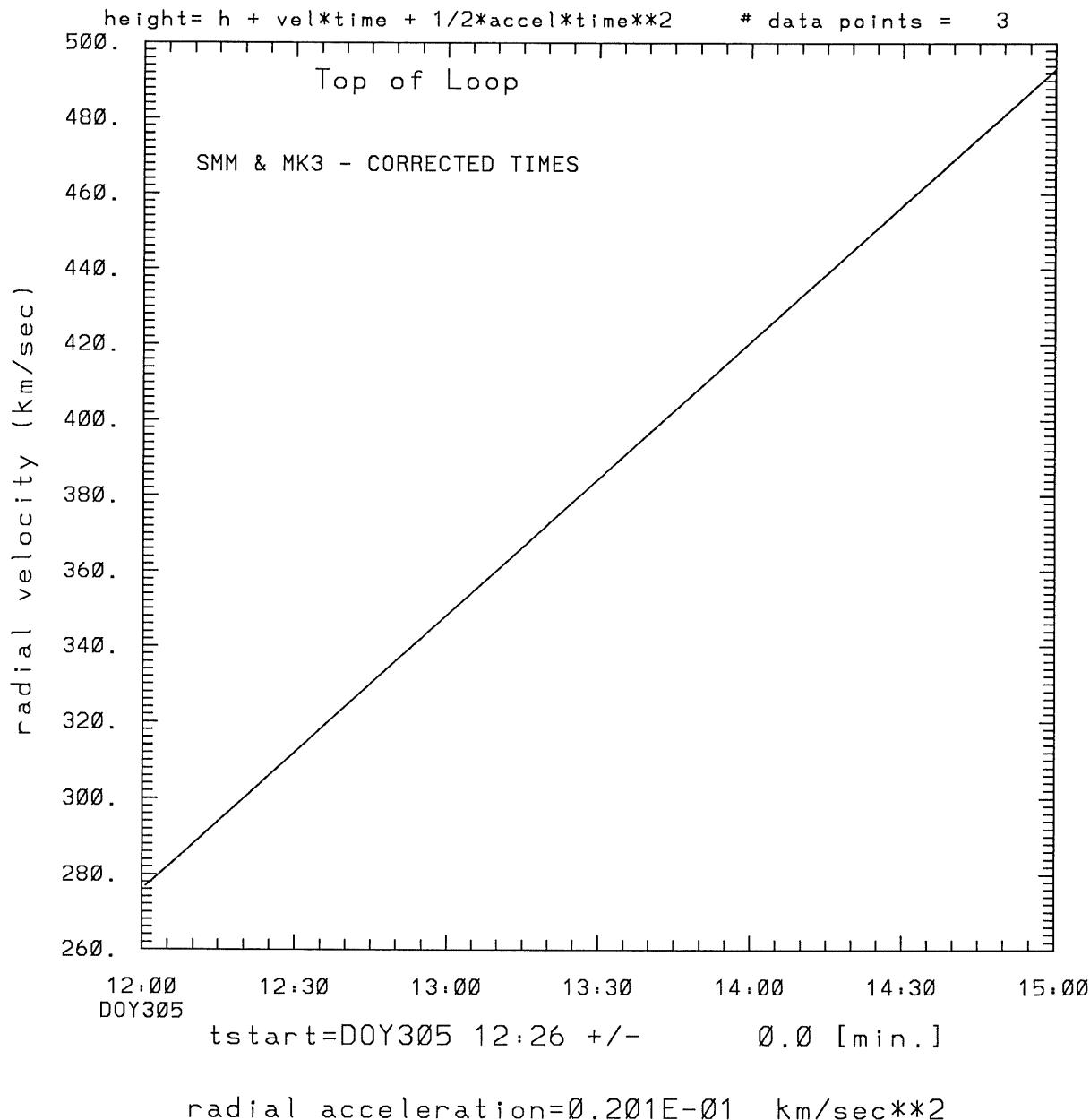
SMM C/P 1987 DOY305 125 +/- 0 degrees



SMM C/P 1987 DOY305 125 +/- 0 degrees



SMM C/P 1987 DOY305 125 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1987	305	12:54:24	1.80	+/- 0.10	125.0	+/- 0.5	SMM
1987	305	13:10:54	2.30	+/- 0.15	125.0	+/- 0.5	SMM
1987	305	14:12: 3	4.40	+/- 0.25	125.0	+/- 1.0	SMM

Structure being measured:

Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + 0.308E+02 +/- 0.292E+02 [minutes]

In more convenient units:

Event began at DOY 305 12:31 +/- 0.292E+02 [minutes]

Origin defined at DOY305 12: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 387. +/- 8. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = -0.283E-01 +/- 0.508E-01 [solar radii]
c(2) = 0.334E-01 +/- 0.720E-03 [radii/min]
c(2) = 0.387E+03 +/- 0.835E+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)= 0.72285E-01 [radii] see Bevington pg. 114
error in c(2)= 0.78522E-03 [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) = 125. +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 12:54 = 0.000E+00 km/sec

The TOTAL velocity at 12:54 = 387. km/sec

The TANGENTIAL velocity at 13:10 = 0.000E+00 km/sec

The TOTAL velocity at 13:10 = 387. km/sec

The TANGENTIAL velocity at 14:12 = 0.000E+00 km/sec

The TOTAL velocity at 14:12 = 387. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 1.38

Standard Deviation in start time measurement = 0.334E+02

Error in time = 0.13614E+01 using best fit method

See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.817E-03

Reduced Chi Squared = 0.444E-02

Chi Squared = 0.444E-02

The probability for exceeding chi square = 0.977E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.1327E-01

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	datatype
1987	305	12:54:24	1.80	+/- 0.10	125.0	+/- 0.5	SMM	
1987	305	13:10:54	2.30	+/- 0.15	125.0	+/- 0.5	SMM	
1987	305	14:12: 3	4.40	+/- 0.25	125.0	+/- 1.0	SMM	

Structure being measured:

Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + 0.258E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 305 12:26 +/- 0.000E+00 [minutes]

Origin defined at DOY305 12: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.201E-01 +/- 0.265E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.352E+00 +/- 0.511E-05 [solar radii]
c(2) = 0.238E-01 +/- 0.127E-06 [radii/min]
c(2) = 0.276E+03 +/- 0.147E-02 [km/sec]
c(3) = 0.520E-04 +/- 0.686E-09 [radii/min**2]
c(3) = 0.201E-01 +/- 0.265E-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) = 125. +/- 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]

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THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 12:54 = 0.000E+00 km/sec
The TOTAL velocity at 12:54 = 342. km/sec

The TANGENTIAL velocity at 13:10 = 0.000E+00 km/sec
The TOTAL velocity at 13:10 = 361. km/sec

The TANGENTIAL velocity at 14:12 = 0.000E+00 km/sec
The TOTAL velocity at 14:12 = 435. km/sec

The following info is for estimating goodness of the fit

Number data points = number of coefficients. No error analysis is possible.

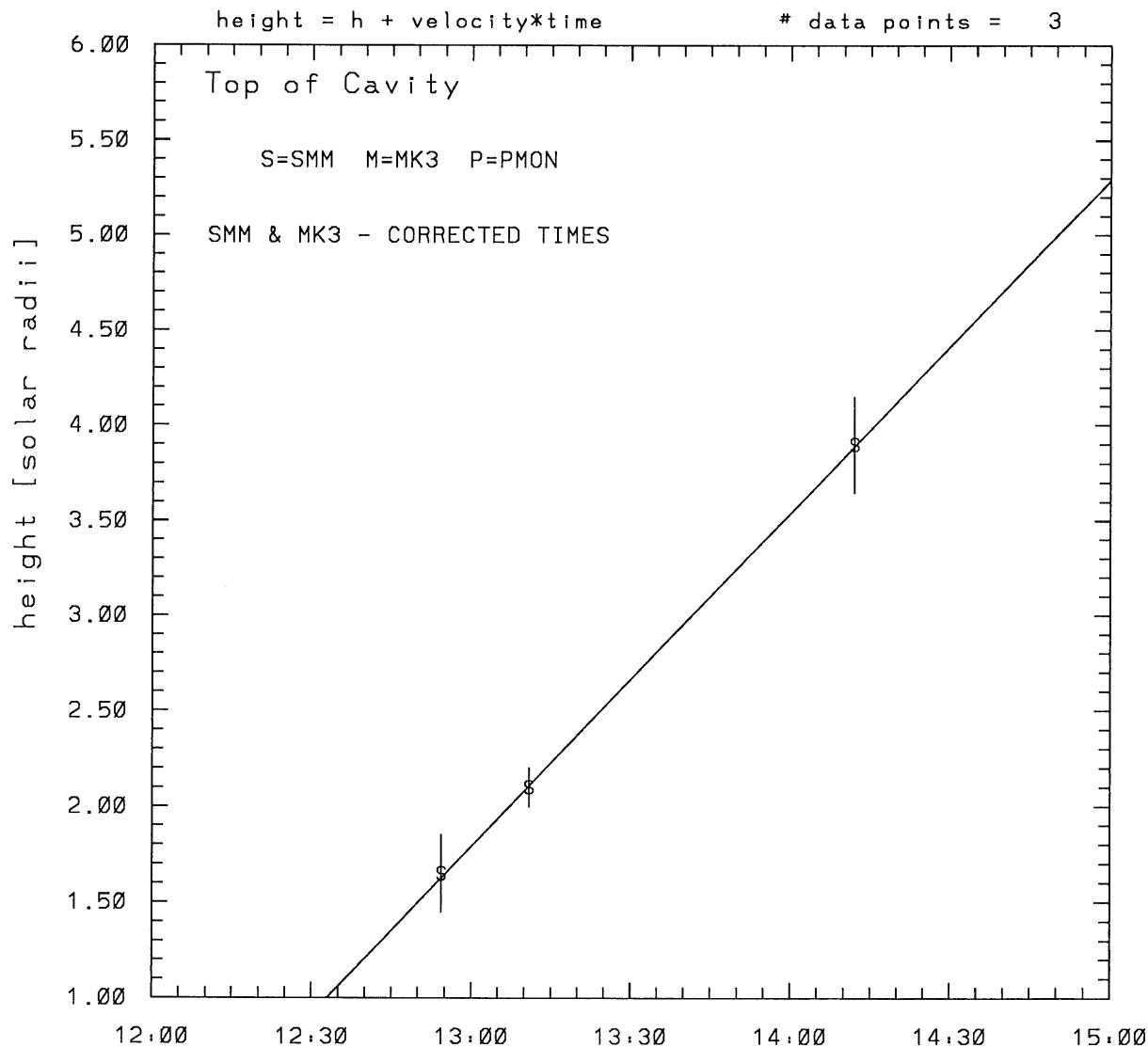
Correlation coefficient is not computable!

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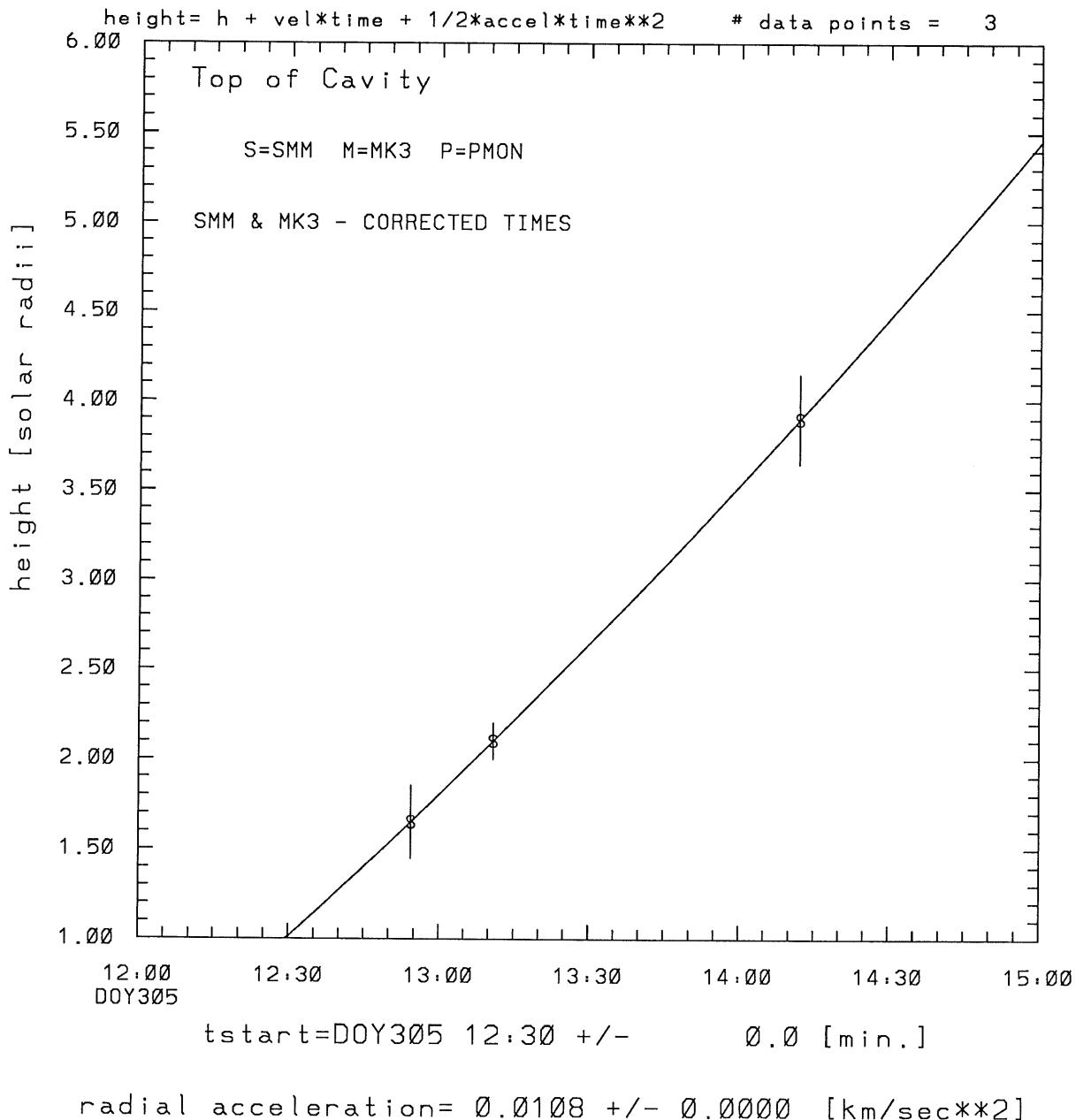


SMM C/P 1987 DOY305 125 +/- 0 degrees

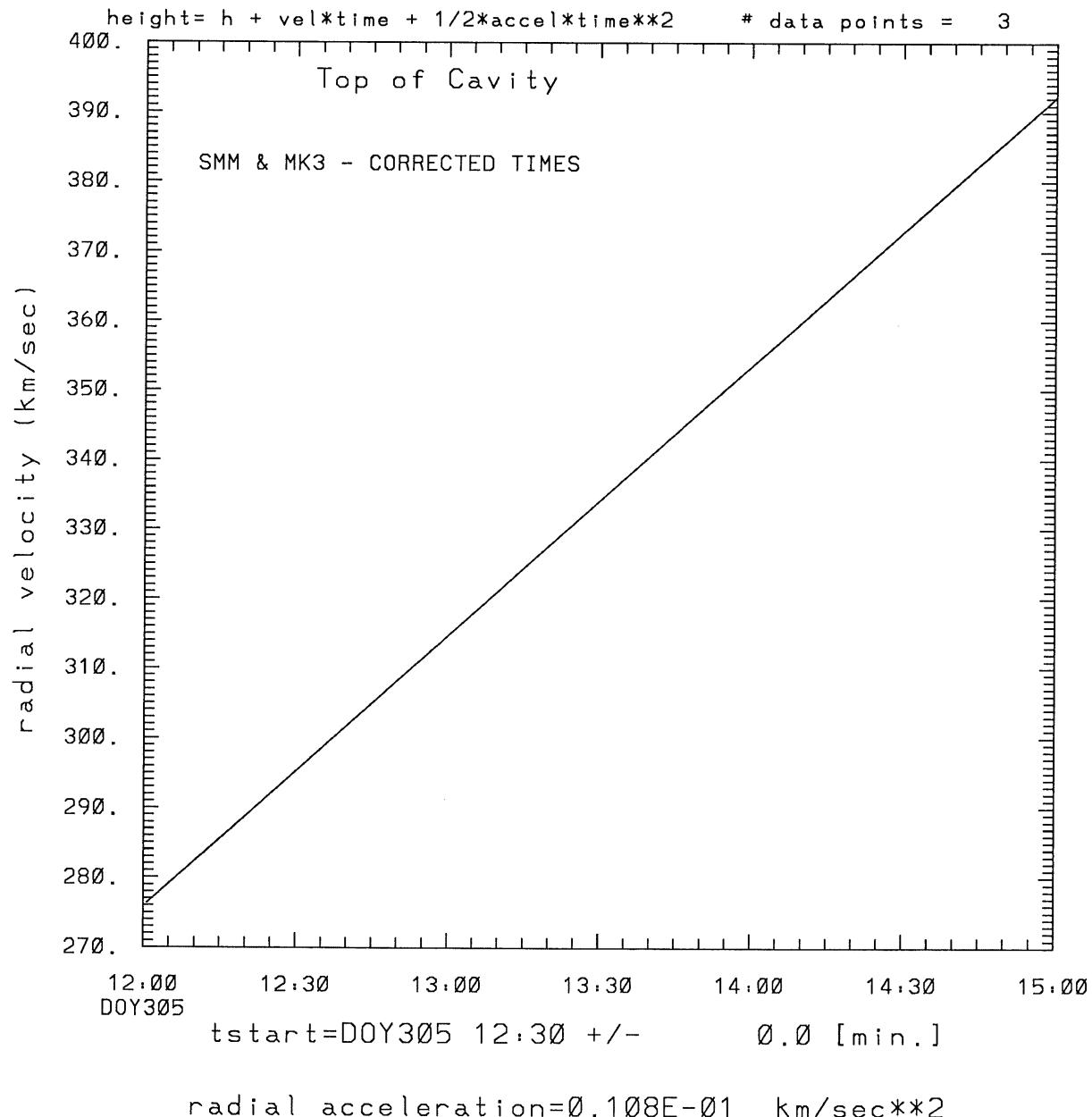


tstart=DOY305 12:33 +/- 14.9 [min.]
radial velocity= 338. +/- 5. [km/sec]

SMM C/P 1987 DOY305 125 +/- 0 degrees



SMM C/P 1987 DOY305 125 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1987	305	12:54:24	1.65	+/- 0.20	125.0	+/- 0.5	SMM
1987	305	13:10:54	2.10	+/- 0.10	125.0	+/- 0.5	SMM
1987	305	14:12: 3	3.90	+/- 0.25	125.0	+/- 1.0	SMM

Structure being measured:

Top of Cavity

OUTPUT:

START TIME:

Event began at t = 0 + 0.329E+02 +/- 0.149E+02 [minutes]

In more convenient units:

Event began at DOY 305 12:33 +/- 0.149E+02 [minutes]

Origin defined at DOY305 12: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 338. +/- 5. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.406E-01 +/- 0.315E-01 [solar radii]
c(2) = 0.292E-01 +/- 0.404E-03 [radii/min]
c(2) = 0.338E+03 +/- 0.468E+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)= 0.42334E-01 [radii] see Bevington pg. 114
error in c(2)= 0.45986E-03 [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) = 125. +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 12:54 = 0.000E+00 km/sec
The TOTAL velocity at 12:54 = 338. km/sec

The TANGENTIAL velocity at 13:10 = 0.000E+00 km/sec
The TOTAL velocity at 13:10 = 338. km/sec

The TANGENTIAL velocity at 14:12 = 0.000E+00 km/sec
The TOTAL velocity at 14:12 = 338. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 1.19
Standard Deviation in start time measurement = 0.334E+02
Error in time = 0.91264E+00 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.223E-03
Reduced Chi Squared = 0.960E-03
Chi Squared = 0.960E-03
The probability for exceeding chi square = 0.988E+00

The correlation coefficient = 0.100E+01
The probability that no LINEAR correlation exists between the variables = 0.8233E-02
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	305	12:54:24	1.65	+/- 0.20	125.0	+/- 0.5	SMM
1987	305	13:10:54	2.10	+/- 0.10	125.0	+/- 0.5	SMM
1987	305	14:12: 3	3.90	+/- 0.25	125.0	+/- 1.0	SMM

Structure being measured:

Top of Cavity

OUTPUT:

START TIME:

Event began at t = 0 + 0.295E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 305 12:30 +/- 0.000E+00 [minutes]

Origin defined at DOY305 12: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.108E-01 +/- 0.122E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.274E+00 +/- 0.268E-05 [solar radii]
c(2) = 0.238E-01 +/- 0.609E-07 [radii/min]
c(2) = 0.276E+03 +/- 0.707E-03 [km/sec]
c(3) = 0.279E-04 +/- 0.314E-09 [radii/min**2]
c(3) = 0.108E-01 +/- 0.122E-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) = 125. +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 12:54 = 0.000E+00 km/sec
The TOTAL velocity at 12:54 = 311. km/sec

The TANGENTIAL velocity at 13:10 = 0.000E+00 km/sec
The TOTAL velocity at 13:10 = 322. km/sec

The TANGENTIAL velocity at 14:12 = 0.000E+00 km/sec
The TOTAL velocity at 14:12 = 361. 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!