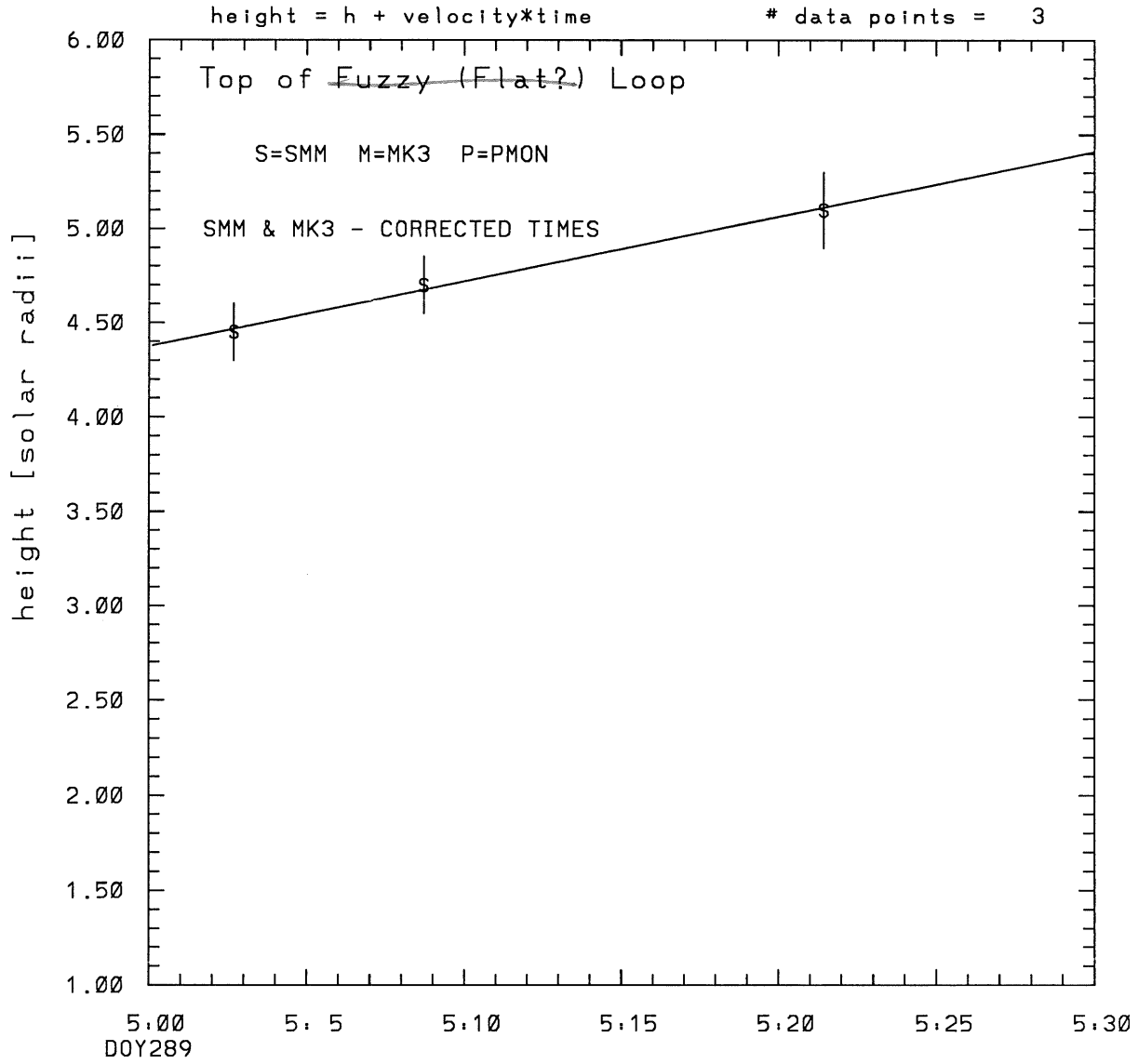
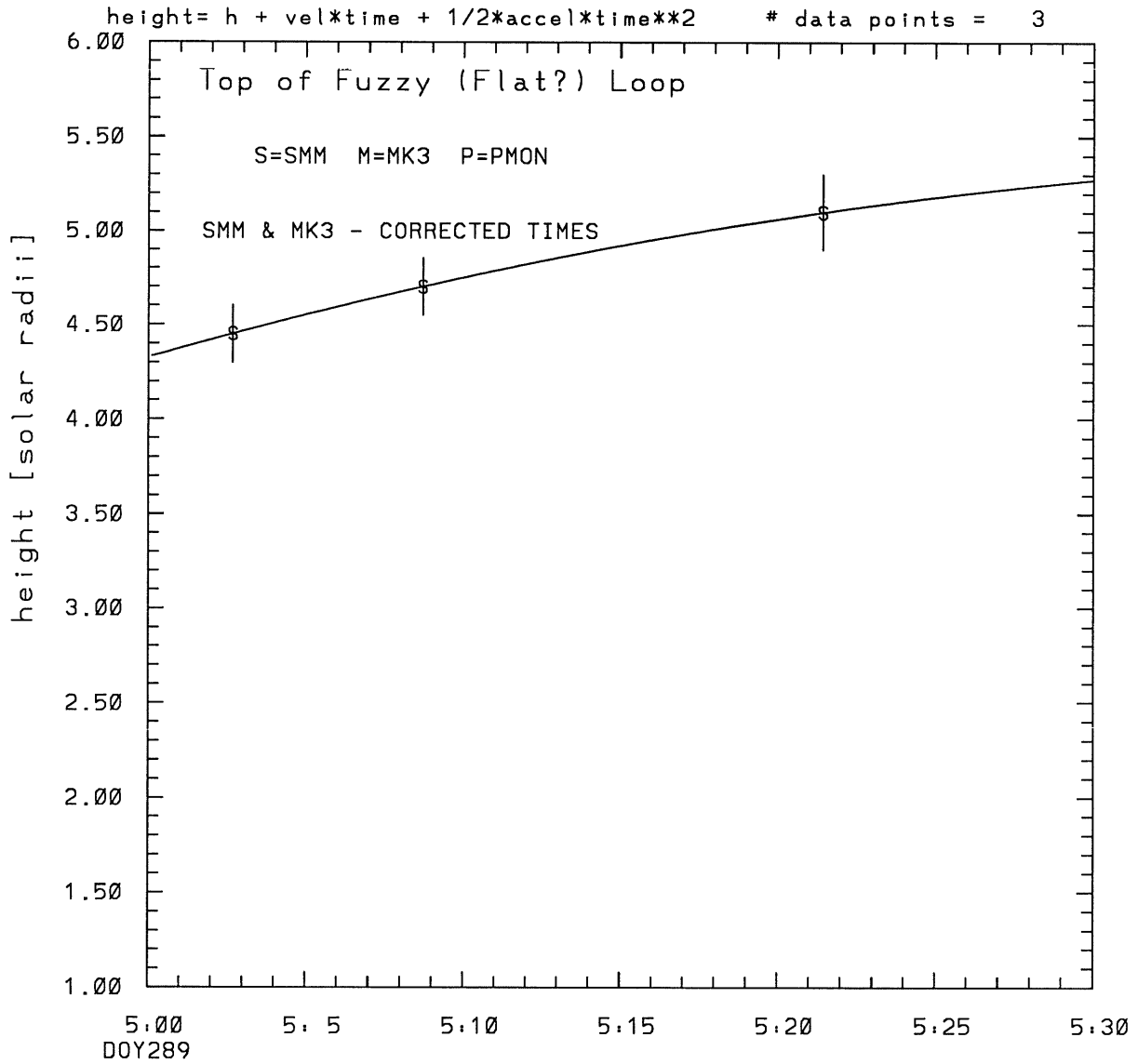


SMM C/P 1986 DOY289 260 +/- 0 degrees



tstart=DOY289 3:24 +/- 3.3 [min.]  
radial velocity= 401. +/- 23. [km/sec]

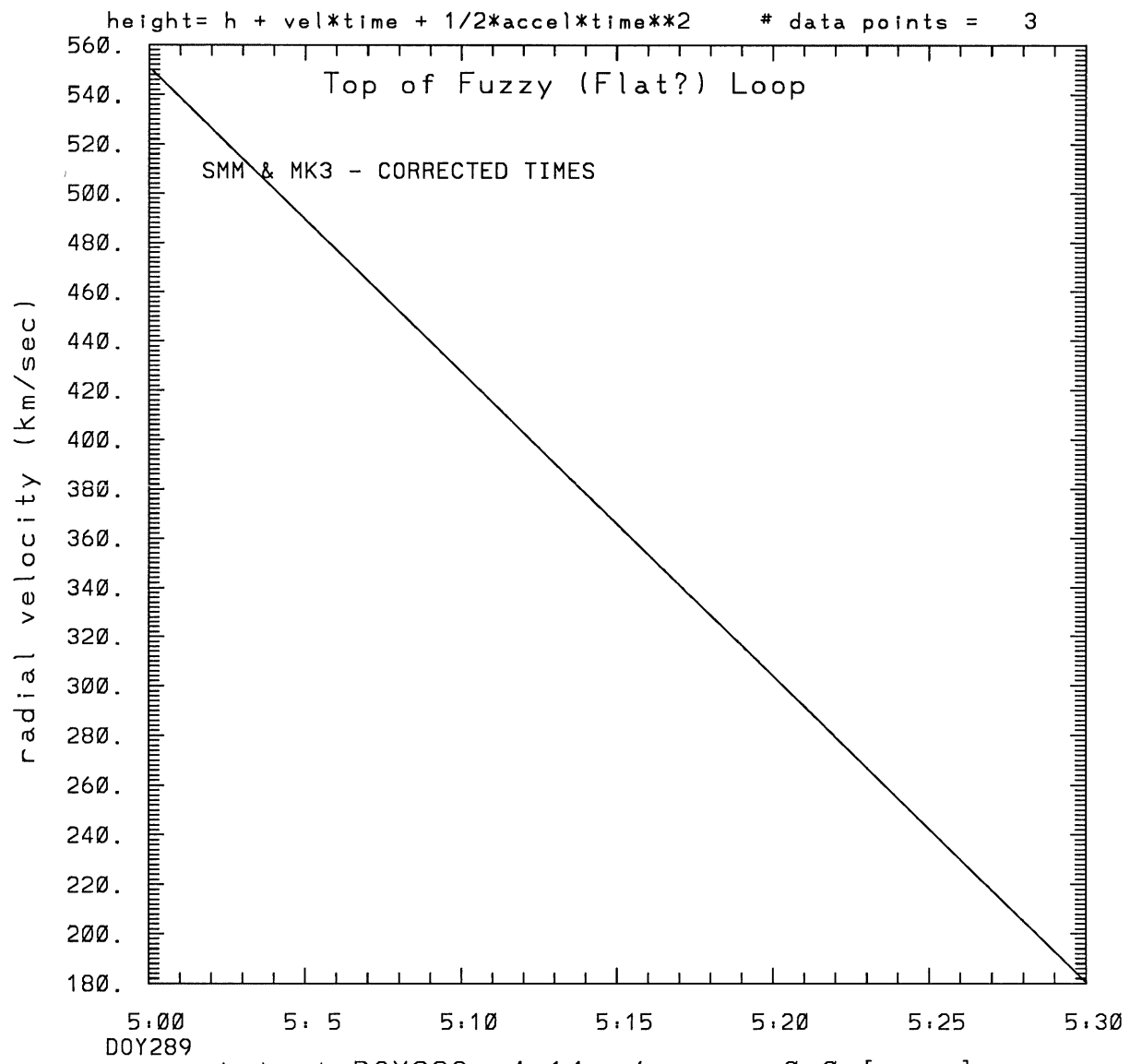
SMM C/P 1986 DOY289 260 +/- 0 degrees



tstart=DOY289 4.14 +/- 0.0 [min.]

radial acceleration = -0.2058 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1986 DOY289 260 +/- 0 degrees



tstart=DOY289 4:14 +/- 0.0 [min.]

radial acceleration=-.206E+00 km/sec\*\*2

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	error in radius	angle	error in angle	datatype
1986	289	5: 2:41	4.45	+/- 0.15	260.0	+/- 1.0	SMM
1986	289	5: 8:43	4.70	+/- 0.15	260.0	+/- 1.0	SMM
1986	289	5:21:26	5.10	+/- 0.20	260.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Fuzzy (Flat?) Loop

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.977E+02 +/- 0.328E+01 [minutes]

In more convenient units:

Event began at DOY 289 3:24 +/- 0.328E+01 [minutes]

Origin defined at DOY289 5: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 401. +/- 23. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.437E+01 +/- 0.231E-01 [solar radii]  
 c(2) = 0.345E-01 +/- 0.200E-02 [radii/min]  
 c(2) = 0.401E+03 +/- 0.232E+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)= 0.32997E-01 [radii] see Bevington pg. 114

error in c(2)= 0.24536E-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) = 260. +/- 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 5: 2 = 0.000E+00 km/sec

The TOTAL velocity at 5: 2 = 401. km/sec

The TANGENTIAL velocity at 5: 8 = 0.000E+00 km/sec

The TOTAL velocity at 5: 8 = 401. km/sec

The TANGENTIAL velocity at 5:21 = 0.000E+00 km/sec

The TOTAL velocity at 5:21 = 401. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.33

Standard Deviation in start time measurement = 0.782E+01

Error in time = 0.96196E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.594E-03

Reduced Chi Squared = 0.212E-02

Chi Squared = 0.212E-02

The probability for exceeding chi square = 0.981E+00

The correlation coefficient = 0.998E+00

The probability that no LINEAR correlation exists between the variables = 0.4482E-01

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

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

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

year	day	time	radii	error in radius	angle	error in angle	datatype
1986	289	5: 2:41	4.45	+/- 0.15	260.0	+/- 1.0	SMM
1986	289	5: 8:43	4.70	+/- 0.15	260.0	+/- 1.0	SMM
1986	289	5:21:26	5.10	+/- 0.20	260.0	+/- 1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of Fuzzy (Flat?) Loop  
\*\*\*\*\*

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

START TIME:

Event began at  $t = 0 + -0.462E+02 +/- 0.000E+00$  [minutes]  
In more convenient units:  
Event began at DOY 289 4:14 +/- 0.000E+00 [minutes]

Origin defined at DOY289 5: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  $-0.206E+00 +/- 0.000E+00$  km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =  $0.433E+01 +/- 0.000E+00$  [solar radii]  
c(2) =  $0.475E-01 +/- 0.000E+00$  [radii/min]  
c(2) =  $0.551E+03 +/- 0.000E+00$  [km/sec]  
c(3) =  $-0.532E-03 +/- 0.000E+00$  [radii/min\*\*2]  
c(3) =  $-0.206E+00 +/- 0.000E+00$  [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) = 260. +/- 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]

$$a(3) = 0.000E+00 \pm 0.000E+00 \text{ [rad/sec**2]}$$

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 5: 2 = 0.000E+00 km/sec

The TOTAL velocity at 5: 2 = 518. km/sec

The TANGENTIAL velocity at 5: 8 = 0.000E+00 km/sec

The TOTAL velocity at 5: 8 = 443. km/sec

The TANGENTIAL velocity at 5:21 = 0.000E+00 km/sec

The TOTAL velocity at 5:21 = 286. km/sec

\*\*\*\*\*

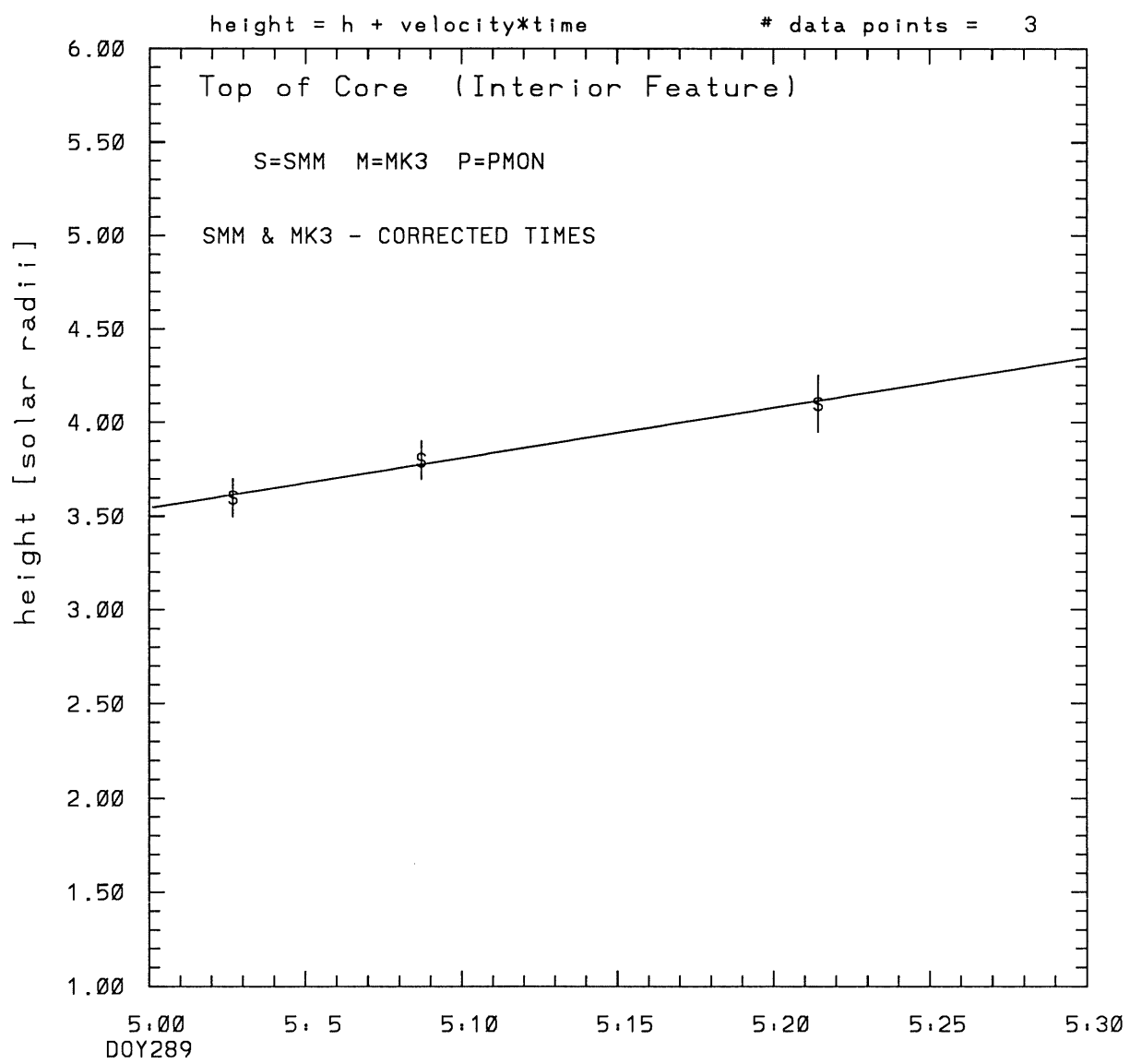
The following info is for estimating goodness of the fit

\*\*\*\*\*

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

Correlation coefficient is not computable!

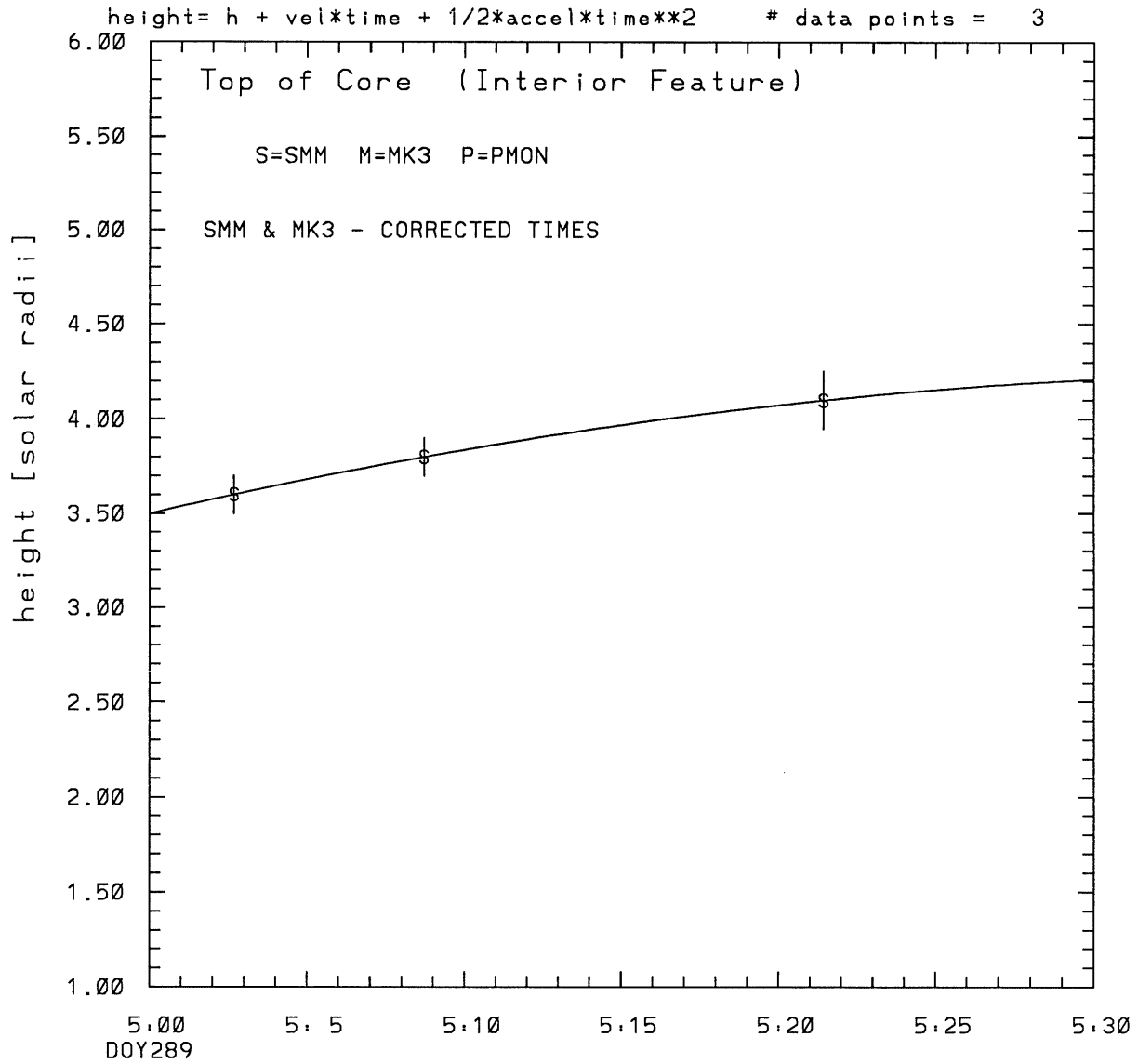
SMM C/P 1986 DOY289 260 +/- 0 degrees



tstart=DOY289 3.25 +/- 4.3 [min.]  
radial velocity= 310. +/- 24. [km/sec]



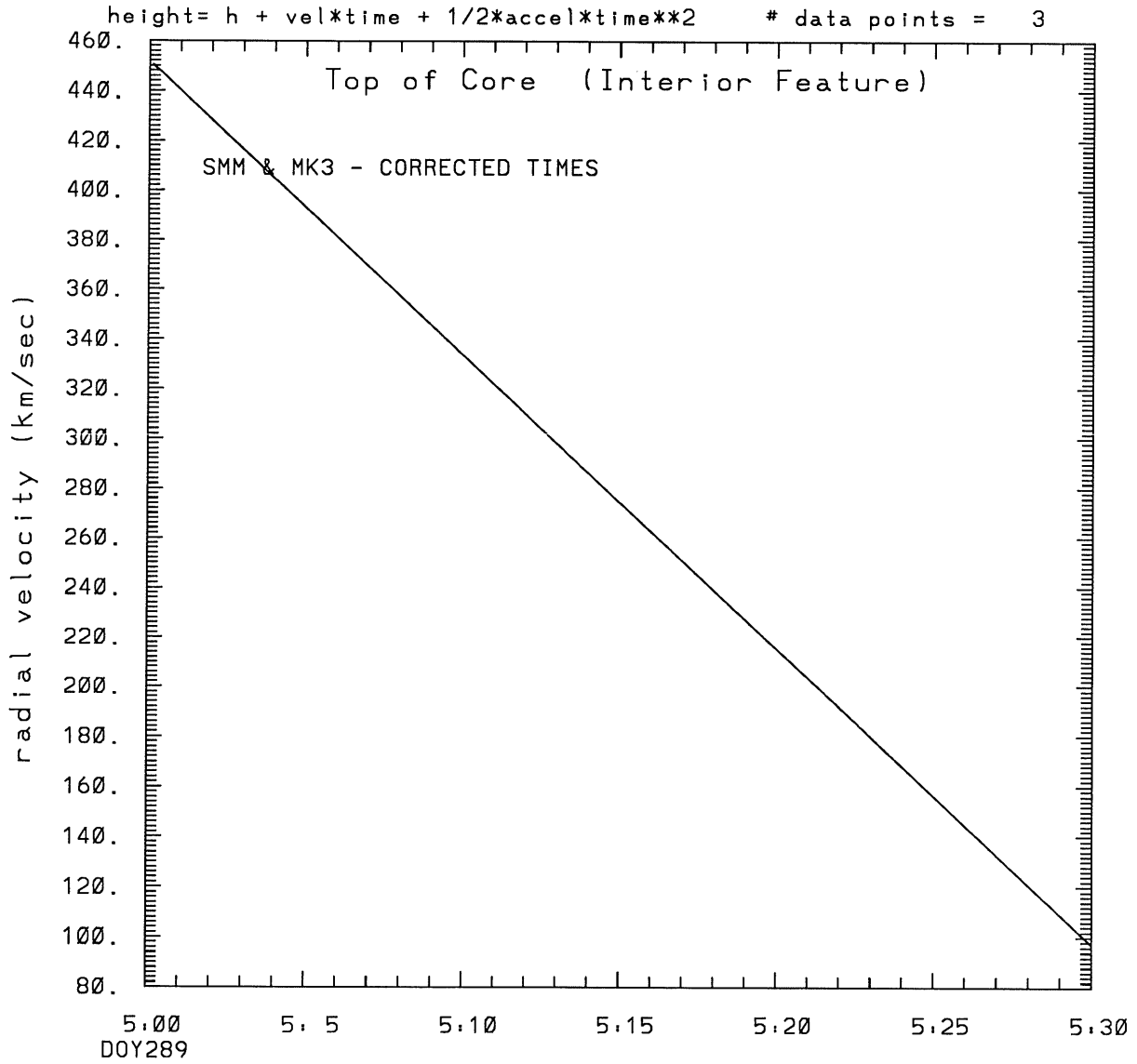
SMM C/P 1986 DOY289 260 +/- 0 degrees



tstart=DOY289 4:20 +/- 0.0 [min.]

radial acceleration = -0.1971 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1986 DOY289 260 +/- 0 degrees



5.00  
DOY289

tstart=DOY289 4.20 +/- 0.0 [min.]

radial acceleration =  $-.197E+00$  km/sec\*\*2

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

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

year	day	time	radii	error in radius	angle	error in angle	datatype
1986	289	5: 2:41	3.60	+/- 0.10	260.0	+/- 1.0	SMM
1986	289	5: 8:43	3.80	+/- 0.10	260.0	+/- 1.0	SMM
1986	289	5:21:26	4.10	+/- 0.15	260.0	+/- 1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of Core (Interior Feature)  
\*\*\*\*\*

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

START TIME:

Event began at  $t = 0 + -0.952E+02 +/- 0.434E+01$  [minutes]

In more convenient units:

Event began at DOY 289 3:25 +/- 0.434E+01 [minutes]

Origin defined at DOY289 5: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 310. +/- 24. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

$c(1) = 0.354E+01 +/- 0.222E-01$  [solar radii]  
 $c(2) = 0.267E-01 +/- 0.204E-02$  [radii/min]  
 $c(2) = 0.310E+03 +/- 0.237E+02$  [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  $c(1) = 0.32331E-01$  [radii] see Bevington pg. 114

error in  $c(2) = 0.24041E-02$  [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) = 260. +/- 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 5: 2 = 0.000E+00 km/sec

The TOTAL velocity at 5: 2 = 310. km/sec

The TANGENTIAL velocity at 5: 8 = 0.000E+00 km/sec

The TOTAL velocity at 5: 8 = 310. km/sec

The TANGENTIAL velocity at 5:21 = 0.000E+00 km/sec

The TOTAL velocity at 5:21 = 310. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.25

Standard Deviation in start time measurement = 0.782E+01

Error in time = 0.12178E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.554E-03

Reduced Chi Squared = 0.215E-02

Chi Squared = 0.215E-02

The probability for exceeding chi square = 0.981E+00

The correlation coefficient = 0.996E+00

The probability that no LINEAR correlation exists between the variables = 0.5605E-01

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

\*\*\*\*\*

This is a 2 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	day	time	radii	error in radius	error in angle	angle	datatype
1986	289	5: 2:41	3.60	+/- 0.10	260.0	+/- 1.0	SMM
1986	289	5: 8:43	3.80	+/- 0.10	260.0	+/- 1.0	SMM
1986	289	5:21:26	4.10	+/- 0.15	260.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Core (Interior Feature)

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\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at  $t = 0 + -0.416E+02 +/- 0.000E+00$  [minutes]

In more convenient units:

Event began at DOY 289 4:20 +/- 0.000E+00 [minutes]

Origin defined at DOY289 5: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  $-0.197E+00 +/- 0.141E-05$  km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =  $0.350E+01 +/- 0.392E-06$  [solar radii]  
c(2) =  $0.390E-01 +/- 0.900E-07$  [radii/min]  
c(2) =  $0.452E+03 +/- 0.104E-02$  [km/sec]  
c(3) =  $-0.510E-03 +/- 0.365E-08$  [radii/min\*\*2]  
c(3) =  $-0.197E+00 +/- 0.141E-05$  [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) =  $260. +/- 0.$  [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]

$$a(3) = 0.000E+00 \pm 0.000E+00 \text{ [rad/sec**2]}$$

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 5: 2 = 0.000E+00 km/sec

The TOTAL velocity at 5: 2 = 420. km/sec

The TANGENTIAL velocity at 5: 8 = 0.000E+00 km/sec

The TOTAL velocity at 5: 8 = 349. km/sec

The TANGENTIAL velocity at 5:21 = 0.000E+00 km/sec

The TOTAL velocity at 5:21 = 198. 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!