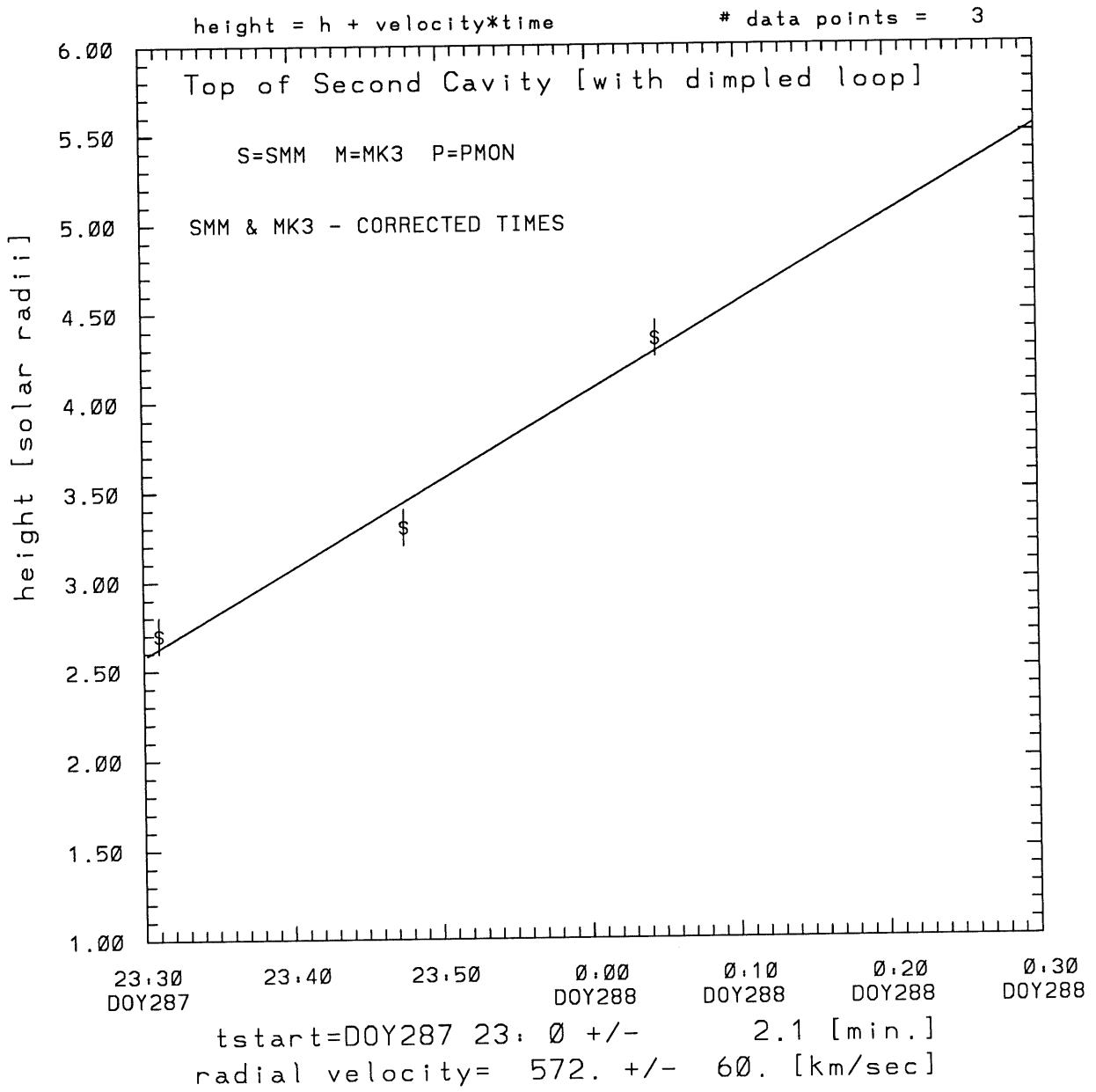
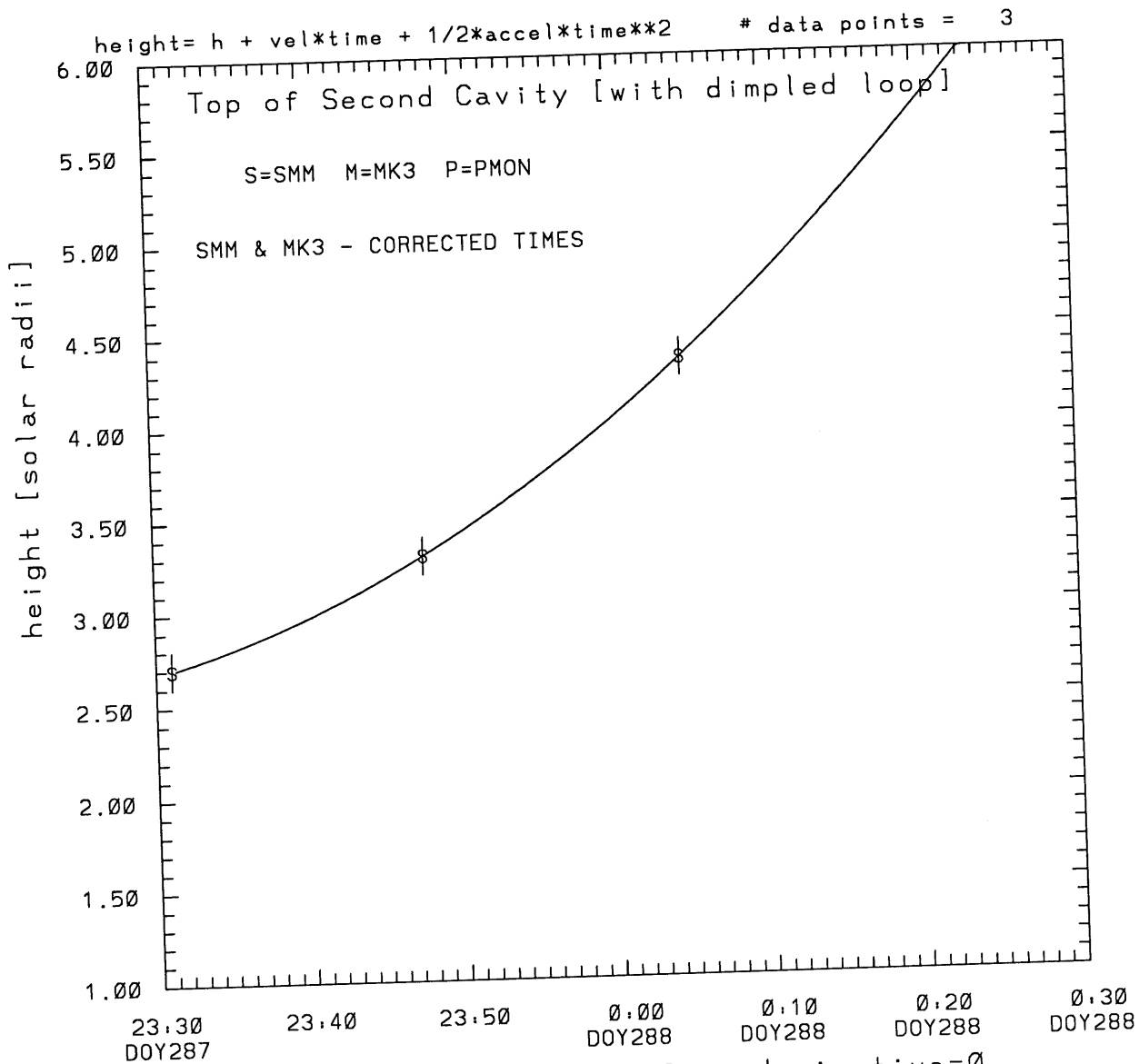


SMM C/P 1989 DOY287 132 +/- 0 degrees

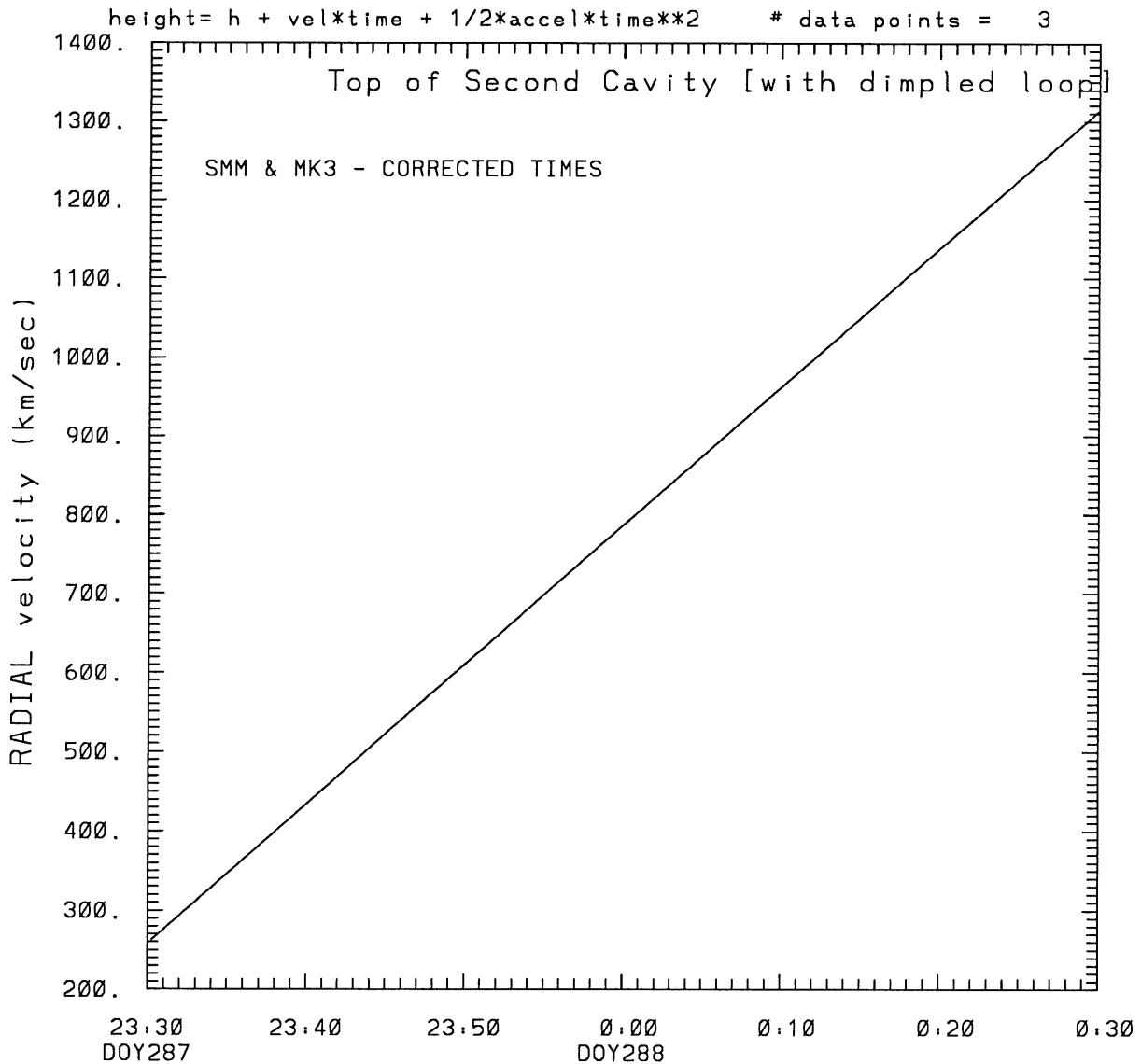


SMM C/P 1989 DOY287 132 +/- 0 degrees



tstart=DOY287 23:16 from derivative=0
Event begins at 2.51 Solar Radii
radial acceleration = 0.2932 +/- 0.0000 [km/sec**2]

SMM C/P 1989 DOY287 132 +/- 0 degrees



tstart=DOY287 23:16 from derivative=0
Event begins at 2.51 Solar Radii
radial acceleration=0.293E+00 km/sec**2

1989 DOY 287

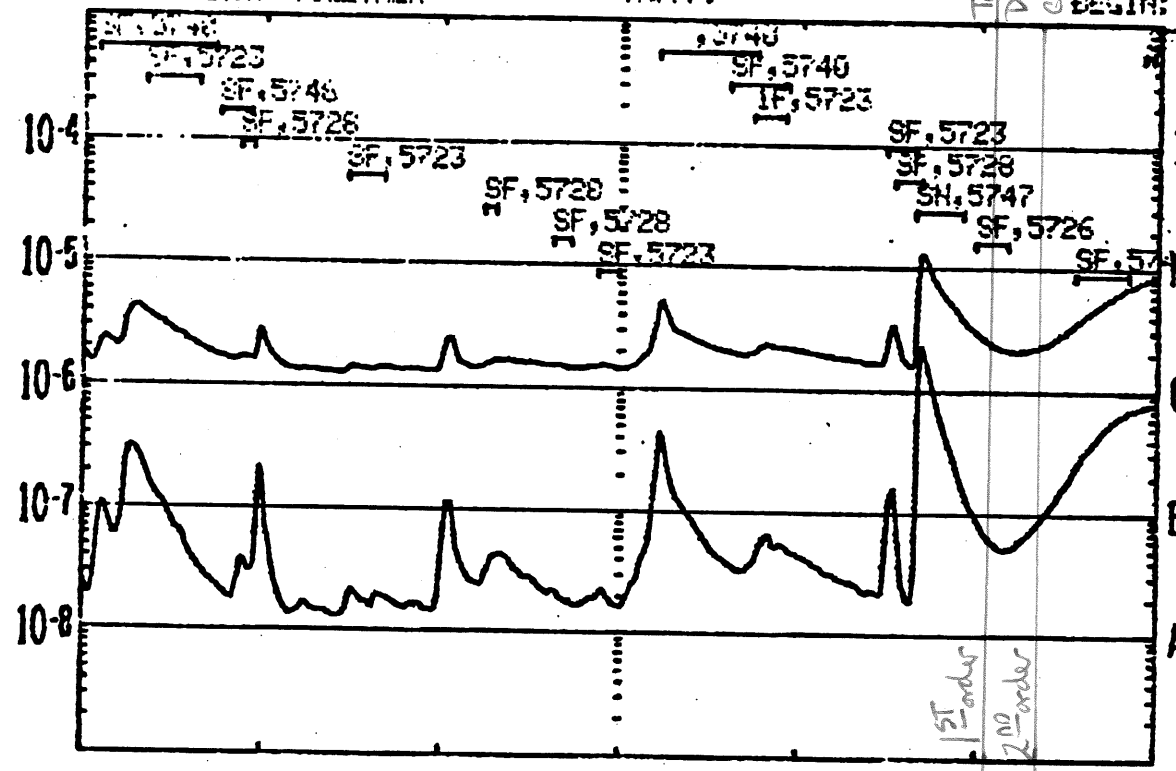
Top of Cavity in
Dimpled Loop
Center = 130
[23:03] 1st order
[23:19] 2nd order

STOP and OPTICAL DATA TOGETHER

STOP Ret.

BEGIN: 14 OCT 89

Watts meter²



GOES 7 0.5-4.0A GOES 7 1.0-8.0A
OPTICAL FLARES

14/1300 14/2100 15/0000

SAA's NIGHT

GOES-7 1 MIN DATA: OPTICAL FLARE DUR. IMP. REGION

RUN: 1926UT
18 OCT 89

This is a 1 order run

INPUT:

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	287	23:31: 2	2.70 +/-	0.10	132.0 +/-	0.5	SMM
1989	287	23:47:32	3.30 +/-	0.10	132.0 +/-	1.0	SMM
1989	288	0: 4:32	4.35 +/-	0.10	132.0 +/-	1.0	SMM

Structure being measured:
Top of Second Cavity [with dimpled loop]

OUTPUT:

START TIME:

Event began at $t = 0 + -0.320E+02 +/- 0.214E+01$ [minutes]
In more convenient units:
Event began at DOY 287 23:00 +/- 0.214E+01 [minutes]
Event began at DOY 287 23: 0 +/- 0.214E+01 [minutes]
Origin defined at DOY287 23:30

RADIAL INFORMATION:

RADIAL VELOCITY = 572. +/- 60. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.258E+01 +/- 0.116E+00 [solar radii]
c(2) = 0.493E-01 +/- 0.518E-02 [radii/min]
c(2) = 0.572E+03 +/- 0.601E+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)= 0.16397E+00 [radii] see Bevington pg. 114
error in c(2)= 0.73305E-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) = 132. +/- 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 23:31 = 572. km/sec

The RADIAL velocity at 23:47 = 572. km/sec

The RADIAL velocity at 0: 4 = 572. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.84
Standard Deviation in start time measurement = 0.137E+02
Error in time = 0.35211E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.151E-01
Reduced Chi Squared = 0.600E-01
Chi Squared = 0.600E-01
The probability for exceeding chi square = 0.902E+00

The correlation coefficient = 0.989E+00
The probability that no LINEAR correlation exists between the variables = 0.9394
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	287	23:31: 2	2.70 +/-	0.10	132.0 +/-	0.5	SMM
1989	287	23:47:32	3.30 +/-	0.10	132.0 +/-	1.0	SMM
1989	288	0: 4:32	4.35 +/-	0.10	132.0 +/-	1.0	SMM

Structure being measured:
Top of Second Cavity [with dimpled loop]

OUTPUT:

START TIME:

tstart=DOY287 23:16 from derivative = 0
Event begins at 2.51 Solar Radii
Origin defined at DOY287 23:30

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.293E+00 +/- 0.000E+00 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.268E+01 +/- 0.000E+00 [solar radii]
c(2) = 0.223E-01 +/- 0.000E+00 [radii/min]
c(2) = 0.259E+03 +/- 0.000E+00 [km/sec]
c(3) = 0.758E-03 +/- 0.000E+00 [radii/min**2]
c(3) = 0.293E+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) = 132. +/- 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 23:31 = 277. km/sec

The RADIAL velocity at 23:47 = 567. km/sec

The RADIAL velocity at 0: 4 = 866. 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!