The maximum of delta SM

M\_S\_0\_50 =

**1.3707**

ans =

**Value of temperature = 37.0000**

The maximum of deltaT vs T

M\_T\_0\_50 =

**1.9799**

ans =

**Value of temperature of 2nd peak 36.9081**







**THIS VALUE I HAVE TKEN AT THE SECOND PEAK. WHY IS THIS???????**



**EXTRA PEAK ------ Transition – antiferromagnetic field supresses with field ….. to**

**PPMS VSM magnetometer …**

**squid**

**Heat capacity – ESR gopal… ///**

OTHER FIGURES

CbyT



**C vs T**









DY DX

CURVE FITTING



p3 =

General model:

p3(x) = myquad(a,gama,x)

Coefficients (with 95% confidence bounds):

a = 126.2 (116.8, 135.5)

gama = 0.5126 (0.4926, 0.5327)



General model:

p4(x) = myquad(a,b,c,d,x)

Coefficients (with 95% confidence bounds):

a = 2.102

b = -10.67

c = -10.67

d = -28.57

All contributions



p5 =

General model:

p5(x) = myquad(a,b,c,d,gama,thetad,x)

Coefficients (with 95% confidence bounds):

a = -24.17

b = -82.1

c = -41.79

d = -26.48 (-3.179e+010, 3.179e+010)

gama = 0.5126 (0.4919, 0.5333)

thetad = 126.2 (116.5, 135.8)