
Subject: Doubt in polynomial fitting - emergency
Posted by [sid](#) on Tue, 02 Nov 2010 08:39:39 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

I am fitting my spectral data with 2 degree polynomial with the routine svdfit. I need to find the minimum value after fitting the data points.

For example my code is like this,

;c is x axis with wavelength(it is an absorption line)

;d is y axis with normalised intensity

ypoly=svdfit(c,d,3,yfit=y1,chisq=chi,sigma=sig)

x=min(y1)

x1=-(ypoly(1))/(2*ypoly(2))

if suppose u,v is the position of x, x1 respectively then

c(u) should be equal to c(v)

and

d(u) should be equal to d(v)

but im getting

c(u)=3933.3090 in angstroms

c(v)=3933.3072 in angstroms

d(u)=0.071168385

d(v)=0.072779992

Please suggest me why it is not the same, which value should I believe and how?

thanking you

sid
