
Subject: polynomial fitting(second degree)
Posted by [sid](#) on Mon, 10 May 2010 18:36:23 GMT
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Hi,

I am having wavelength in x axis from say $c=(3933.2002, \dots, 3933.4724)$ and intensity in y axis from say $d=(0.085022407, \dots, 0.081581624, \dots, 0.085993795)$.

Now I did `res=poly_fit(c,d,2)`

then, $x=(-res(1)/(2*res(2))$ which should give the site of minimum value, but instead im getting some very weird answer as 4410.8199. I calculated $y = res(0) + res(1)*x + res(2)*x^2$ which should give the minimum value but it is also obviously weird.

But the same procedure if I proceed with `c=dindgen(78)`(that is the number of wavelength values initially in c).

Then if I do `res=poly_fit(c,d,2)`

then i did $x=(-res(1)/(2*res(2))$ and $y = res(0) + res(1)*x + res(2)*x^2$, in this way im getting resonable x and y value.

Why it happens and please help me to get the correct solution, even if i do the same with the wavelength values.

regards

sid
