
Subject: Fitting with three parameters ???

Posted by [atmospheric physics](#) on Mon, 16 Jun 2014 10:49:18 GMT

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Hello,

I have two columns of data, say variables X and Y. Now I want to fit the data with a function $Y = x1 - x2 * \exp(-x3 * X)$. I do not know what the values of x1, x2 and x3.

Can anyone say if there is automatic way in IDL to define our fitting function and then obtain the fitted parameters to the data? How is non-linear fitting done in IDL? Also, I would like to know which function will be able to give me R2 correlation coefficient?

Thanks in advance,
Madhavan
