
Subject: Fitting with tabulated models

Posted by [ianpaul.freeley](#) on Mon, 11 Jan 2010 21:42:02 GMT

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I have a large set of models where I have two (but plan to expand) degrees of freedom. The models are not directly compared to data, but need to be multiplied by a low-order polynomial to take out calibration issues and massaged in other ways. I have a function that returns a value of χ^2 for a model given some data, but it is not trivial so I would like to minimize the number of models I have to compare.

My question is, what's the best method for finding the χ^2 minimum given tabulated function values? Should I try to use mpfit and make sure the minimum step size is large enough? Should I use Amoeba and set the scale keyword? Or is there another standard way to search tabulated models?
