Subject: Fitting with tabulated models
Posted by ianpaul.freeley on Mon, 11 Jan 2010 21:42:02 GMT

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 chi^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 chi^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?