
Subject: 2D-fit

Posted by [Esa Riihonen](#) on Tue, 02 Mar 2004 12:21:40 GMT

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Hi all!

I seek advice on fitting a following function with 2-free variables mu and phi (Below '.' indicates multiplication and '^2' power of 2):

$$F(\mu, \phi) = a_0 + a_1 \mu + a_2 \mu^2 + (a_3 \mu + a_4 \mu^2) \cos(\phi - \phi_0),$$

ϕ_0 is a constant and a_i are the fitting parameters.

Measurement set consists of 240 values (10 values for mu and 24 for phi, this in effect a polar coordinate grid with 24 'sectors' and 10 'rings').

So the question what is the best way of doing this in IDL?

I would be grateful for any advice,

Esa

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The CT Creed: "There is no Game but Traveller,
and High Guard is its Product" Steve Hudson
