Subject: Re: doubt in chisq value
Posted by sid on Tue, 02 Nov 2010 07:29:11 GMT
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On Nov 1, 7:48 pm, wlandsman <wlands...@gmail.com> wrote:
> On Nov 1, 2:43 am, sid <gunvicsi...@gmail.com> wrote:
>
>> Hi,
>> I am fitting my data with svdfit (2 degree polynomial), now I need
>> to know how exactly the chisq value is calculated in this routine,
>> because I need to know the goodness of fit. For my data which I am
>> fitting I am getting chisq values which varies from 6.3534419e-07 to
>> 8.0278877e-09 for different datasets. But please help how the routine
>> is performing the chisq calculation and how can I find the goodness of
>> fit from it.
>> thanking you
>> sid
>
> You are almost certainly supplying unrealistic error bars (sigma
> values).
> Chisq can be calculated from the single line (e.g. see curvefit.pro)
>
> chisq = total(Weights*(y-yfit)^2)/nfree
>
> where weights = 1/sigma^2 , and nfree is the number of data points
> minus the number of free parameters.
>
> --Wayne

Does the sigma value denote the error in each y value? If so can you
suggest me how to find the error for each y value, mine is a spectral
data. I am fitting a spectral line with 2 degree polynomial.
thanking you
sid
sid