
Subject: Re: Reduced chi-square goodness-of-fit statistic

Posted by [pgrigis](#) on Mon, 09 Feb 2009 00:45:41 GMT

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the reduced chi square is one if the error are accurate representation of the errors in your data (with some assumption about their distribution).

If you get chi-square much less than one, that means that you have overestimated your errors.

Ciao,
Paolo

giorgosioanno...@gmail.com wrote:

> I got confused with the reduced chi-square goodness-of-fit statistic
> returned by the curvefit. Can anyone tell me what exactly this is? I
> had the impression that the fit is good when its value is near 1.
> However when I try to test it with some good fits I get really small
> values so I am not sure that what I thought is correct. For which
> values to we reject the good-fit hypothesis?

>

> In particular some of the data I have give me the following chi-
> square goodness-of-fit statistics after fitting them to a curve:

>

> chisq= 0.00018011358

> chisq= 0.00013042104

> chisq= 5.8597835e-005

>

> Are these good fits?

>

> And also what exactly is the unreduced chi-square goodness-of-fit
> statistic returned by the poly_fit and when do we reject the good-fit
> hypothesis there?

>

> Thanks,

> Giorgos