Subject: Reduced chi-square goodness-of-fit statistic
Posted by giorgosioannou84 on Sun, 08 Feb 2009 22:38:21 GMT
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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