

## Chi square

The (normalized)  $\chi^2$  (read: chi square) is the optimization parameter for [least squares](#) fitting (for a definition see there). For a perfect fit it should be near 1. As a measure of the goodness-of-fit it is insufficient. Other methods have to be used in addition, like examining the weighted [residuals](#) trace and the [autocorrelation function](#) of the weighted residuals trace.

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