



How can I determine the uncertainty in a flux measurement?

The calculation of uncertainties for flux measurements is going to be included in a future CIAO release. The proper derivation of flux errors doesn't directly follow from the uncertainties of the model parameters, for most models.

However, there are a few models where the flux error can be directly derived from the normalization of the model. For the models [ngauss1d](#), [nbeta](#), [lorentz1d](#), and [delta1d](#), we can compute flux errors based on the error of the normalization.

There isn't a *Sherpa* command to do this, but the information is written out when an [MDL](#) file is created. If the user uses one of the models listed above and writes out an MDL file, the flux error will be in the `fluxerr` column of the output file.

The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian Astrophysical Observatory.
60 Garden Street, Cambridge, MA 02138 USA.
Smithsonian Institution, Copyright © 1998–2006. All rights reserved.

URL:
<http://cxc.harvard.edu/sherpa3.4/faq/errors-flux.html>
Last modified: 21 September 2006

