



Frequently Asked Questions

The Frequently Asked Questions (FAQ) page is a place where users can find answers to the most common *Sherpa* questions. The [CXC Helpdesk](#) also has a [searchable database](#), where users can look through all public Helpdesk questions.

[I/O](#) | [Models & Parameters](#) | [Fitting](#) | [Plotting](#) | [Error Calculation](#) | [User Models](#)

I/O

Recording Output

1. [Is there a way to capture all the screen output from *Sherpa*?](#)

Case Sensitivity

1. [Why are some *Sherpa* commands case-sensitive, while others aren't?](#)

S-Lang commands

1. [How can I control whether *Sherpa* or S-Lang interprets a command?](#)
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Models & Parameters

Linking Multiple Model Parameters

1. [When fitting two spectra simultaneously, is there a way to vary one model, but keep the ratio of normalizations between different models the same?](#)

Parameter Ranges

1. [How do I change parameter minimum and maximum range limits?](#)

Parameter Estimation

1. [How do I restore the default values of the parameters used to configure each *Sherpa* parameter-estimation method?](#)

Fitting

Sherpa vs. XSPEC

1. Why do my fit results from *Sherpa* and XSPEC differ by so much?
2. How is error handling done in *Sherpa* as opposed to XSPEC?

Spectra

1. Why doesn't *Sherpa* fit my PHA spectra?

Model Parameters

1. Why didn't the value of my thawed parameters change in the fit?
How is this different than just freezing that parameter?
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Plotting

General

1. Why doesn't *Sherpa* plot in energy scale, even if I enter "PLOTX 2 ENERGY"?
 2. How do I make a log–log plot?
How do I return to linear axes?
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Error Calculation

General

1. How can I determine the uncertainty in a flux measurement?

Projection

1. What does this warning mean?

```
WARNING: upper projection bound not found for (parameter name)
```

User Models

General

1. My user model worked in CIAO 2.3. Why won't it work in CIAO 3?
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