AHELP for CIAO 3.4   **set_log**   Context: sherpa

Jump to: Description Examples Bugs

Synopsis

Switch axis to log in Sherpa plots

Syntax

```
set_log
set_xlog
set_ylog
```

Description

These commands allow a user to switch x− and y−axis to log in all Sherpa plots. A plotting command LPLOT needs to be issued in order for these commands to take effect.

A user can control log and linear scale of the x and y−axis created with the LPLOT command by setting the x_log and y_log in the corresponding Sherpa configuration variable (also called "state object") sherpa.plot, sherpa.dataplot, sherpa.fitplot, or sherpa.resplot.

The functions set_log, set_xlog, and set_ylog allow you to change these fields in all the configuration variables (sherpa.plot, sherpa.dataplot, sherpa.fitplot, sherpa.resplot) at once as shown in the following table:

Function Name	Description
set_log	Set x_log = 1 and y_log = 1
set_xlog	Set x_log = 1
set_ylog	Set y_log = 1

Example 1

```
sherpa> set_log
```

This sets plot axis (both in x and y) to log scale in all Sherpa plots.

Example 2

```
sherpa> set_xlog
```

This sets plot axis to log scale for only the x–axes in all Sherpa plots.

Example 3

```
sherpa> set_ylog
sherpa> print(sherpa.fitplot.y_log)
1
sherpa> lplot fit
```

The first command (set_ylog) sets y–axis to log scale in all Sherpa plots. The second command prints out the value of the y_log field of the sherpa.fitplot variable; it is set to 1 because of the set_ylog command. The third command displays fit in log scale

Bugs

See the Sherpa bug pages online for an up–to–date listing of known bugs.

Example 2