URL: http://cxc.harvard.edu/ciao3.4/set_lin.html
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AHELP for CIAO 3.4

set_lin

Context: sherpa

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Synopsis

Switch plotting axis to linear scale in Sherpa plots

Syntax

```
set_lin
set_xlin
set_ylin
```

Description

These commands allow a user to switch x− and y−axis to linear scale 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_lin, set_xlin, and set_ylin 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_lin	Set x_log = 0 and y_log = 0
set_xlin	Set x_log = 0
set_ylin	Set y_log = 0

Example 1

```
sherpa> set_lin
```

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

Example 2

```
sherpa> set_xlin
```

This sets plot axis to linear scale for only the x−axis in all Sherpa plots.

Example 3

```
sherpa> set_ylin
sherpa> print(sherpa.fitplot.y_log)
0
sherpa> lplot fit
```

The first command (set_ylog) sets y−axis to linear 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 0 (false) because of the set_ylin command. The third command displays fit in linear scale

Bugs

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

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