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 AHELP for CIAO 3.4

## set\_eroff

Context: [sherpa](#)

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### Synopsis

Switch off the drawing of error bars in Sherpa plots

### Syntax

```
set_eroff
set_xeroff
set_yeroff
```

### Description

These commands allow a user to turn off the drawing of error bars in all Sherpa plots. A plotting command LPLOT needs to be issued in order for these commands to take effect.

Errors bars can be turned on or off in plots (from LPLOT) by setting the `x_errorbars` and `y_errorbars` fields in the corresponding Sherpa configuration variable (also called "state object") `sherpa.plot`, `sherpa.dataplot`, `sherpa.fitplot`, or `sherpa.resplot`.

The functions `set_eroff`, `set_xeroff`, and `set_yeroff` allow you to change these fields in all the configuration variables (`sherpa.plot`, `sherpa.dataplot`, `sherpa.fitplot`, `sherpa.resplot`) in one go as shown in the following table:

Function Name	Description
<code>set_eroff</code>	Set <code>x_errorbars = 0</code> and <code>y_errorbars = 0</code>
<code>set_xeroff</code>	Set <code>x_errorbars = 0</code>
<code>set_yeroff</code>	Set <code>y_errorbars = 0</code>

### Example 1

```
sherpa> set_eroff
```

This turns off the drawing of errorbars (both in x and y directions) in all Sherpa plots.

## Example 2

```
sherpa> set_xeroff
```

This turns off the drawing of errorbars in only the x direction in all Sherpa plots.

## Example 3

```
sherpa> set_yeroff
sherpa> print(sherpa.fitplot.y_errorbars)
0
sherpa> lplot 2 fit delchi
```

The first command (set\_yeroff) turns off the drawing of errorbars in only the y direction in all Sherpa plots. The second command prints out the value of the y\_errorbars field of the sherpa.fitplot variable; it is set to 0 because of the set\_yeroff command. The third command plots fit and delchi without y errorbars.

## Example 4

```
sherpa> set_yeroff
sherpa> sherpa.fitplot.y_errorbars = 1
sherpa> lplot fit
```

The first command (set\_yeroff) turns off the drawing of errorbars in only the y direction in all Sherpa plots. The second command changes the sherpa.fitplot variable so that its y\_errorbars field is set to 1 which means that "LLOT FIT" will include y error bars. The third command plots fit with y errorbars.

## Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

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URL:  
[http://cxc.harvard.edu/ciao3.4/set\\_eroff.html](http://cxc.harvard.edu/ciao3.4/set_eroff.html)  
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