



AHELP for CIAO 3.4

get_eqwidth

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Synopsis

Module functions that compute the equivalent width of an emission or absorption line in source or background data.

Syntax

```
Float_Type get_eqwidth([Integer_Type],String_Type,String_Type)
Float_Type get_beqwidth([Integer_Type],String_Type,String_Type)
```

Error Return Values: NULL

Arguments:

- (1) Dataset number (default 1)
- (2) Expression defining the continuum model
- (3) Expression defining the continuum-plus-line model

Description

See the related Sherpa command EQWIDTH for definitions and more information.

Example

Model a continuum and emission line complex using a power-law and normalized Gaussian, then compute the equivalent width:

```
sherpa> SOURCE = POW[cont]+NGAUSS[eline]
...
sherpa> FIT
...
sherpa> EQWIDTH 1 (cont,cont+eline)
EW = 0.535073 keV
sherpa> foo = get_eqwidth(1,"cont","cont+eline")
sherpa> print(foo)
0.535073
```

Bugs

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

See Also

chandra

[guide](#)

sherpa

[bye](#), [calc_kcorr](#), [dataspace](#), [dcounts](#), [dollarsign](#), [echo](#), [eflux](#), [eqwidth](#), [erase](#), [flux](#), [get](#), [get_dcounts_sum](#), [get_dir](#), [get_eflux](#), [get_filename](#), [get_flux2d](#), [get_flux_str](#), [get_lfactorial](#), [get_mcounts_sum](#), [get_pflux](#), [get_source_components](#), [get_verbose](#), [groupbycounts](#), [guess](#), [is](#), [journal](#), [list](#), [list_par](#), [mcounts](#), [numbersign](#), [paramest](#), [plot_eprof](#), [plot_rprof](#), [prompt](#), [reset](#), [run](#), [set](#), [set_analysis](#), [set_axes](#), [set_coord](#), [set_dataspace](#), [set_dir](#), [set_verbose](#), [setplot](#), [sherpa-module](#), [sherpa_plotfns](#), [sherpa_utils](#), [show](#), [simspec](#), [use](#), [version](#)

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URL:
http://cxc.harvard.edu/ciao3.4/get_eqwidth.html
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