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

Jump to: Description Example Bugs See Also

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