



AHELP for CIAO 3.4

get_source

Context: [sherpa](#)

Jump to: [Description](#) [Example](#) [Bugs](#) [See Also](#)

Synopsis

Module functions to retrieve predicted source and background model photon amplitudes.

Syntax

```

Array_Type get_source([Integer])
Array_Type get_bg([Integer])
Array_Type get_full_source([Integer])
Array_Type get_full_bg([Integer])

Error Return Value: NULL

Arguments:

(1) data set number (default 1)
  
```

Description

These functions evaluate the source or bg model in photon space, and are thus analogous to `get_mcounts()`, etc., which work in counts space. What is returned is an array of amplitudes for those photon-space bins which map to the filtered data set. (Adding full causes unfiltered amplitudes to be returned.) One retrieves the dataspace for these amplitudes using the functions `get_photon_axes()` et al.

Filtered source and background model amplitudes in photon-space may be displayed, e.g., via the Sherpa plotting commands `L PLOT SOURCE` and `L PLOT BG`.

Example

```

sherpa> data example.pha
sherpa> instrument = rsp[rr]("example.rmf", "example.arf")
sherpa> source = xspowlaw[pp]
sherpa> foo = get_source()
  
```

Bugs

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

See Also

chandra

guide

sherpa

get analysis, get arf axes, get axes, get coord, get data, get energy axes, get errors, get filter,
get filter expr, get fit, get fluxed spectrum, get ftest, get metadata, get photon axes,
get photon energy axes, get photon wave axes, get qvalue, get raw axes, get record,
get statistic, get stats, get syserrors, get wave axes, get weights, record, save, write

The Chandra X-Ray Center (CXC) is operated for NASA by the Smithsonian
Astrophysical Observatory.
60 Garden Street, Cambridge, MA 02138 USA.
Smithsonian Institution, Copyright © 1998–2006. All rights reserved.

URL:
http://cxc.harvard.edu/ciao3.4/get_source.html
Last modified: December 2006