Chandra X-ray Center

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

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Synopsis

Module function to determine if whether the specified dataset is background−subtracted.

Syntax

```
Integer_Type is_subtracted([Integer_Type])

Arguments:

(1) Dataset number (default 1)
```

Description

This function returns 1 if the background has been subtracted in the specified source dataset.

See the related Sherpa commands SUBTRACT and UNSUBTRACT for more information.

Example

Determine if dataset 1 is background subtracted:

```
sherpa> DATA example.pha
The inferred file type is PHA.  If this is not what you want, please
specify the type explicitly in the data command.
WARNING: using systematic errors specified in the PHA file.
RMF is being input from:
  <directory_path>/example2.rmf
ARF is being input from:
  <directory_path>/example2.arf
Background data are being input from:
  <directory_path>/example2_bkg.pha
sherpa> is_subtracted
0
sherpa> SUBTRACT
sherpa> is_subtracted(1)
1
```

The 0 returned from the first call indicates that no, dataset 1 is not background subtracted. (Unlike XSPEC, Sherpa does not automatically subtract background data upon input.) The 1 returned from the second call, issued after the SUBTRACT command, indicates that yes, dataset 1 is now background−subtracted.

Bugs

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

See Also

chandra
>   guide

sherpa
>   autoest, back, berrors, bsyserrors, coord, data, dataspace, fakeit, feffile, group, guess, load, load_arf, load_ascii, load_back_from, load_backset, load_dataset, load_fitsbin, load_image, load_inst, load_inst_from, load_pha, load_pha2, load_rmf, read, set_analysis, set_axes, set_backscale, set_coord, set_data, set_exptime, set_subtract, set_weights, setback, setdata, subtract, ungroup, unsubtract, use

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