



AHELP for CIAO 3.4

get_lfactorial

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Synopsis

Module function to compute the natural logarithm of the factorial of the input quantity

Syntax

```
Double_Type get_lfactorial(Double_Type)
```

Description

This function may be used, e.g., to convert the Cash statistic to the true Poisson log-likelihood in simulation scripts. The input number must be non-negative.

Example

Compute the natural log of 6 factorial:

```
sherpa> get_lfactorial(6)  
6.57925
```

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_eqwidth](#), [get_filename](#), [get_flux2d](#), [get_flux_str](#), [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_lfactorial.html
Last modified: December 2006