

*AHELP for CIAO 3.4***xspcfabs**Context: [sherpa](#)*Jump to:* [Description](#) [Bugs](#) [See Also](#)

Synopsis

Partial covering fraction absorption. XSpec model.

Description

A partial covering fraction absorption.

$$M(E) = CvrFract \exp(-nH * \sigma(E)) + (1 - CvrFract)$$

where $\sigma(E)$ is the photo-electric cross-section, NOT including Thomson scattering.

xspcfabs Parameters

| Number | Name | Description |
|--------|----------|---|
| 1 | nH | equivalent hydrogen column (in units of 10^{22} atoms/cm 2) |
| 2 | CvrFract | covering fraction ($0 < CvrFract \leq 1$) (dimensionless) |

This information is taken from the [XSpec User's Guide](#). Version 11.3.1 of the XSpec models is supplied with CIAO 3.2.

Bugs

For a list of known bugs and issues with the XSPEC models, please visit the [XSPEC bugs page](#).

See Also

sherpa

[atten](#), [bbody](#), [bbodyfreq](#), [beta1d](#), [beta2d](#), [box1d](#), [box2d](#), [bpl1d](#), [const1d](#), [const2d](#), [cos](#), [delta1d](#), [delta2d](#), [dered](#), [devaucouleurs](#), [edge](#), [erf](#), [erfc](#), [farf](#), [farf2d](#), [fpsf](#), [fpsf1d](#), [frmf](#), [gauss1d](#), [gauss2d](#), [gridmodel](#), [hubble](#), [jdpileup](#), [linebroad](#), [lorentz1d](#), [lorentz2d](#), [models](#), [nbeta](#), [ngauss1d](#), [poisson](#), [polynom1d](#), [polynom2d](#), [powlaw1d](#), [ptsrc1d](#), [ptsrc2d](#), [rsp](#), [rsp2d](#), [schechter](#), [shexp](#), [shexp10](#), [shlog10](#), [shlog](#), [sin](#), [sqrt](#), [stephi1d](#), [stepl01d](#), [tan](#), [tpsf](#), [tpsf1d](#), [usermodel](#), [xs](#), [xsabsori](#), [xsacisabs](#), [xsappec](#), [xsbapec](#), [xsbbbody](#), [xsbbbodyrad](#), [xsbxrav](#), [xsbxriv](#), [xsbknpower](#), [xsbmcmc](#), [xsbrems](#), [xsbvappec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#), [xsc6vmevl](#), [xscabs](#), [xscemevl](#), [xscevmkl](#), [xscflow](#), [xscompbb](#), [xscompls](#), [xscompst](#), [xscomptt](#), [xsconstant](#), [xscutoffpl](#), [xscyclabs](#), [xsdisk](#), [xsdiskbb](#), [xsdiskline](#), [xsdiskm](#), [xsdisko](#), [xsdiskpn](#), [xsdust](#), [xsedge](#), [xsequil](#),

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xsexpabs, xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsgrad, xsgrbm, xshighecut, xshrefl, xslaor,
xslorentz, xsmeka, xsmekal, xsmkcflow, xsnei, xsnotch, xsnpshock, xsnsa, xsnteea, xspewrwlw,
xspexrav, xspexriv, xsphabs, xsplabs, xsplcabs, xsposm, xspowerlaw, xspshock, xspwab, xsrayment,
xsredden, xsredge, xsrefsch, xsseedov, xssmedge, xsspline, xssrcut, xssresc, xsssice, xsstep, xstbabs,
xstbgrain, xstbvarabs, xsuvred, xsvapec, xsvarabs, xsvbremss, xsvquil, xsvgnei, xsvmcflow, xsvmeka,
xsvmekal, xsvnei, xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xsvseedov, xswabs, xswndabs, xsxion,
xszbbbody, xszbremss, xszedge, xszgauss, xszhighect, xszpcfabs, xszphabs, xszpowerlw, xsztbabs,
xszvarabs, xszvfeabs, xszvphabs, xszwabs, xszwndabs

slang

usermodel

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URL:
<http://cxc.harvard.edu/ciao3.4/xspcfabs.html>
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