



AHELP for CIAO 3.4

xszpcfabs

Context: [sherpa](#)

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

Synopsis

Redshifted partial covering absorption. XSpec model.

Description

A partial covering fraction absorption.

$$M(E) = \text{CvrFract} \exp(-nH \cdot \sigma(E \cdot (1 + \text{Redshift}))) + (1 - \text{CvrFract})$$

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

xszpcfabs Parameters

Number	Name	Description
1	nH	equivalent hydrogen column (in units of 10^{22} atoms/cm ²)
2	CvrFract	covering fraction ($0 < \text{CvrFract} \leq 1.$) (dimensionless)
3	Redshift	redshift, z

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](#), [deref](#), [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](#), [shloge](#), [sin](#), [sqrt](#), [stephi1d](#), [steplo1d](#), [tan](#), [tpsf](#), [tpsf1d](#), [usermodel](#), [xs](#), [xsabsori](#), [xsacisabs](#), [xsapec](#), [xsbapec](#), [xsbody](#), [xsbodyrad](#), [xsbrav](#), [xsbriv](#), [xsbknpower](#), [xsbsmc](#), [xsbremss](#), [xsbvapec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmekl](#), [xsc6vmekl](#), [xscabs](#), [xscemekl](#), [xscevmekl](#), [xscflow](#), [xscompbb](#), [xscompls](#), [xscompst](#), [xscomptt](#), [xsconstant](#), [xscutoffpl](#), [xscyclabs](#), [xsdisk](#), [xsdiskbb](#), [xsdiskline](#), [xsdiskm](#), [xsdisko](#), [xsdiskpn](#), [xsdust](#), [xsedge](#), [xsequil](#), [xsexpabs](#), [xsexpdec](#), [xsexpfac](#), [xsgabs](#), [xsgaussian](#), [xsgnei](#), [xsgrad](#), [xsgrbm](#), [xshighecut](#), [xshrefl](#), [xslaor](#), [xslorentz](#), [xsmeka](#), [xsmekal](#), [xsmkcfLOW](#), [xsnei](#), [xsnotch](#),

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xsnpshock, xsnsa, xsnitea, xspcfabs, xspgpwrlw, xspexrav, xspexriv, xspfabs, xsplabs, xsplcabs,
xspesm, xspowerlaw, xspshock, xspwab, xrraymond, xsredden, xsredge, xsrefsch, xssedov,
xssmedge, xsspline, xssrcut, xssresc, xssssice, xsstep, xstbabs, xstbgrain, xstbvarabs, xsuvred,
xsvapec, xsvarabs, xsvbremss, xsvsequil, xsvgnei, xsvmcflow, xsvmekal, xsvmekal, xsvnei,
xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xsvsedov, xswabs, xswndabs, xsxion, xszbbody,
xszbremss, xszedge, xszgauss, xszhighect, xszphabs, xszpowerlw, xsztbabs, xszvarabs, xszvfeabs,
xszvphabs, xszwabs, xszwndabs

slang

usermodel

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URL:
<http://cxc.harvard.edu/ciao3.4/xszpcfabs.html>
Last modified: December 2006