

*AHELP for CIAO 3.4*

xsvphabs

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

Synopsis

Photoelectric absorption with variable abundances. XSpec model.

Description

A photoelectric absorption with variable abundances using Balucinska–Church and McCammon (ApJ 400, 699) cross–sections set by the xspecxsect command. The abundances are specified relative to the Solar abundance table set using the xspecabundan command. This model is identical to xsvarabs except for the way that the parameters are defined.

xsvphabs Parameters

Number	Name	Description
1	nH	equivalent hydrogen column (in units of 10^22 atoms/cm^2)
2–18	(element)	Abundances for He, C, N, O, Ne, Na, Mg, Al, Si, S, Cl, Ar, Ca, Cr, Fe, Co, Ni with respect to Solar.

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](#), [bp11d](#), [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](#), [xsbxray](#), [xsbxriv](#), [xsbknpower](#), [xsbmcl](#), [xsbrems](#), [xsbvap](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#), [xsc6vme](#), [xscabs](#), [xscemekl](#), [xscevmkl](#), [xscflow](#), [xscompbb](#), [xscompls](#), [xscompst](#), [xscomptt](#), [xsconstant](#), [xscutoffpl](#), [xscyclabs](#), [xsdisk](#), [xsdiskbb](#), [xsdiskline](#), [xsdiskm](#), [xsdisko](#), [xsdiskpn](#), [xsdust](#), [xsedge](#), [xsequil](#), [xsepxabs](#), [xsepxdec](#), [xsexfac](#), [xsgabs](#), [xsgaussian](#), [xsgnei](#), [xgrad](#), [xsgrbm](#), [xshighecut](#), [xshrefl](#), [xslaor](#), [xslorentz](#), [xsmeka](#), [xsmekal](#), [xsmkcf](#), [xsnei](#), [xsnotch](#), [xsnphshock](#), [xsnsa](#), [xsntee](#), [xspcfabs](#), [xspewpwlw](#), [xspexray](#), [xspexriv](#), [xspabs](#), [xsplabs](#), [xsplcabs](#),

Ahelp: xsvphabs – CIAO 3.4

xspowerlaw, xspshock, xspwab, xsraymond, xsredden, xsredge, xsrefsch, xssedov,
xssmedge, xsspline, xssrcut, xssresc, xsssicc, xsstep, xstbab, xstbgrain, xstbvarabs, xsuved,
xsvap, xsvvarabs, xsvbremss, xsvequil, xsvgnei, xsvmcflow, xsvmek, xsvmekal, xsvnei,
xsvnpshock, xsvpshock, xsvraymond, xsvsedov, 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/xsvphabs.html>

Last modified: December 2006