



 AHELP for CIAO 3.4

xsabsori

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Synopsis

Ionized absorber. XSpec model.

Description

An ionized absorber based on that of Done et al. (1992, ApJ 395, 275) and developed by Magdziarz & Zdziarski. See also Zdziarski et al. (1995, ApJ 438, L63). Photoionization rates are from Reilman & Manson (1979, ApJS 40, 815), who employ the Hartree–Slater approximation (accurate to about 5%), and recombination rates are from Shull & Steenburgh (1982, ApJS 48, 95). The cross–sections are extrapolated with E^{-3} above 5 keV. The abundances are set up by the `xspecabund` command.

xsabsori Parameters

Number	Name	Description
1	PhoIndx	power law photon index
2	nH	hydrogen column in units of 10^{22} cm^{-2}
3	TempAbs	absorber temperature in K
4	xi	absorber ionization state (L/nR^2), see Done et al. (1992)
5	redshift	redshift, z
6	FeAbund	iron abundance relative to that defined by the <code>xspecabund</code> command

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](#),

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jdpileup, linebroad, lorentz1d, lorentz2d, models, nbeta, ngauss1d, poisson, polynom1d, polynom2d, powlaw1d, ptsrc1d, ptsrc2d, rsp, rsp2d, schechter, shexp, shexp10, shlog10, shloge, sin, sqrt, steph1d, steplo1d, tan, tpsf, tpsf1d, usermodel, xs, xsacisabs, xsapec, xsbapec, xsbbody, xsbbodyrad, xsboxrav, xsboxriv, xsbknpower, xsbmc, xsbremss, xsbvapec, xsc6mekl, xsc6pmekl, xsc6pvmkl, xsc6vmekl, xcabs, xscemekl, xscevmkl, xscflow, xscmpbb, xscmpls, xscmpst, xscmptt, xsconstant, xscutoffpl, xscyclabs, xsdisk, xsdiskbb, xsdiskline, xsdiskm, xsdisko, xsdiskpn, xs_dust, x_sedge, xsequil, xsexpabs, xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsgrad, xsgrbm, xshighecut, xshrefl, xslaor, xslorentz, xsmeka, xsmekal, xsmkcfLOW, x_snei, x_snotch, x_snpshock, x_snsa, x_snteea, x_spcfabs, x_spegpwr1w, x_speXrav, x_speXriv, x_sphabs, x_splabs, x_splcabs, x_sposm, x_spowerlaw, x_sps_hock, x_spwab, x_sraymond, x_sredden, x_sredge, x_srefsch, x_ssedov, x_ssmedge, x_sspline, x_ssrcut, x_ssrsc, x_sssice, x_sstep, x_stbabs, x_stbgrain, x_stbvarabs, x_suvred, x_svapec, x_svarabs, x_svbremss, x_svequil, x_svgnei, x_svmcflow, x_svmeka, x_svmekal, x_svnei, x_svnps_hock, x_svp_habs, x_svpshock, x_svraymond, x_svsedov, x_swabs, x_swndabs, x_sxion, x_szbbody, x_szbremss, x_szedge, x_szgauss, x_szhighect, x_szpcfabs, x_szphabs, x_szpowerlw, x_sztbabs, x_szvarabs, x_szvfeabs, x_szvp_habs, x_szwabs, x_szwndabs

slang

usermodel

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