



AHELP for CIAO 3.4

## xsredge

Context: [sherpa](#)

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## Synopsis

Recombination edge. XSpec model.

## Description

Recombination edge emission.

$$A(E) = 0 \text{ for } E < \text{edge}$$

$$A(E) = K (1/kT) \exp(-(E-\text{edge})/kT) \text{ for } E > \text{edge}$$

### xsredge Parameters

Number	Name	Description
1	edge	threshold energy
2	kT	plasma temperature (keV)
3	norm (K)	total photons/cm <sup>2</sup> /s in the line

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](#),

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powlaw1d, ptsrc1d, ptsrc2d, rsp, rsp2d, schechter, shexp, shexp10, shlog10, shloge, sin, sqrt, steph1d, steplo1d, tan, tpsf, tpsf1d, usermodel, xs, xsabsori, xsacisabs, xsapec, xsbapec, xsbody, xsbodyrad, xsboxray, xsboxriv, xsboxpower, xsboxmc, xsboxremss, xsboxvapec, xsboxmekl, xsboxpmekl, xsboxpvmkl, xsboxvmekl, xsboxcabs, xsboxcemekl, xsboxcevmkl, xsboxcflow, xsboxcompbb, xsboxcompls, xsboxcompst, xsboxcomptt, xsboxconstant, xsboxcutoffpl, xsboxcyclabs, xsboxdisk, xsboxdiskbb, xsboxdiskline, xsboxdiskm, xsboxdisko, xsboxdiskpn, xsboxdust, xsboxsedg, xsboxsequil, xsboxexpabs, xsboxexpdec, xsboxexpfac, xsboxgabs, xsboxgaussian, xsboxgnei, xsboxgrad, xsboxgrbm, xsboxhighcut, xsboxshrefl, xsboxslaor, xsboxslorentz, xsboxsmeka, xsboxmekal, xsboxsmkcflow, xsboxsnei, xsboxsnotch, xsboxsnpshock, xsboxsnsa, xsboxsnteea, xsboxspcfabs, xsboxpegpwlw, xsboxpexray, xsboxpexriv, xsboxsphabs, xsboxsplabs, xsboxsplcabs, xsboxspesm, xsboxpowerlaw, xsboxshock, xsboxspwab, xsboxraymond, xsboxredden, xsboxrefsch, xsboxsedov, xsboxssmedge, xsboxsspline, xsboxssrcut, xsboxssresc, xsboxssssice, xsboxsstep, xsboxstbabs, xsboxstbgrain, xsboxstbvarabs, xsboxsuvred, xsboxsvapec, xsboxsvarabs, xsboxsvbremss, xsboxsvequil, xsboxsvgnei, xsboxsvmcfow, xsboxsvmekal, xsboxsvnei, xsboxsvnpshock, xsboxsvphabs, xsboxsvpshock, xsboxsvraymond, xsboxsvsedov, xsboxswabs, xsboxswndabs, xsboxsxion, xsboxszbody, xsboxszbremss, xsboxszedge, xsboxszgauss, xsboxszhighcut, xsboxszpcfabs, xsboxszphabs, xsboxszpowerlw, xsboxsztbabs, xsboxszvarabs, xsboxszvfeabs, xsboxszvphabs, xsboxszwabs, xsboxszwndabs

*slang*

usermodel

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