

*AHELP for CIAO 3.4***xsbremss**Context: [sherpa](#)

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Synopsis

Thermal bremsstrahlung. XSpec model.

Description

A thermal bremsstrahlung spectrum based on the Kellogg, Baldwin and Koch (ApJ 199, 299) polynomial fits to the Karzas and Latter numerical values. A routine from Kurucz is used for low temperatures. The He abundance is assumed to be 8.5% of H by number.

xsbremss Parameters

Number	Name	Description
1	kT	plasma temperature in keV
2	norm	(3.02e-15/4/pi/D^2) Int n_e n_I dV , where n_e is the electron density (cm^-3), n_I is the ion density (cm^-3), and D is the distance to the source (cm).

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](#), [xsbxexrav](#), [xsbxexriv](#), [xsbknpower](#), [xsbmc](#), [xsbvappec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#), [xsc6vmekl](#), [xscabs](#), [xscemekl](#), [xscevmkl](#), [xscflow](#), [xscmpbb](#), [xscmpls](#), [xscmpst](#), [xscmpft](#), [xconstant](#), [xscutoffpl](#), [xscyclabs](#), [xsdisk](#), [xsdiskbb](#), [xsdiskline](#), [xsdiskkm](#), [xsdisko](#), [xsdiskpn](#), [xsdust](#), [xsedge](#), [xsequil](#), [xsepbabs](#),

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xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsgrad, xsgrbm, xshighecut, xshrefl, xslaor, xslorentz,
xsmeka, xsmekal, xsmkflow, xsnei, xsnotch, xsnphshock, xsnsa, xsteeaa, xspcfabs, xspewrwlw,
xspexrav, xspexriv, xsphabs, xsplabs, xsplcabs, xsposem, xspowerlaw, xspshock, xspwab, xsraymond,
xsreddens, xsredges, xsrefsch, xssedov, xssmedge, xsspline, xssrcut, xssresc, xsssice, xssstep, xstbabs,
xstbgrain, xstbvarabs, xsuvred, xsvapec, xsvarabs, xsvbremss, xsvequil, xsvgnei, xsvmcflow, xsvmeka,
xsvmekal, xsvnei, xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xvsedov, 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/xsbremss.html>
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