



 AHELP for CIAO 3.4

xspshock

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Synopsis

Constant temperature, plane–parallel shock plasma model. XSpec model.

Description

Constant temperature, plane–parallel shock plasma model. The references for this model can be found in the help file for the xsequil model ("ahelp xsequil").

xspshock Parameters

Number	Name	Description
1	kT	plasma temperature in keV
2	Abundanc	metal abundances (He fixed at cosmic). The elements included are C, N, O, Ne, Mg, Si, S, Ca, Fe, Ni. Abundances are set by the xspecabundan command.
3	Taul	lower limit on ionization timescales (s/cm ³) to include
4	Tauu	upper limit on ionization timescales (s/cm ³) to include
5	redshift	redshift, z
6	norm	$10^{-14} / (4 \pi (D_A * (1+z))^2) \text{ Int } n_e n_H dV$, where D_A is the angular size distance to the source (cm), n_e is the electron density (cm ⁻³), and n_H is the hydrogen density (cm ⁻³)

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, stephi1d, steplo1d, tan, tpsf, tpsf1d, usermodel, xs, xsabsori, xsacisabs, xsapec, xsbapec, xsbody, xsbodyrad, xsboxrad, xsboxrinv, xsboxpower, xsbox, xsboxm, xsboxmss, xsboxvapec, xsboxmekl, xsboxpmecl, xsboxpvmkl, xsboxvmecl, xsboxs, xsboxmekl, xsboxcevmkl, xsboxflow, xsboxcompbb, xsboxcompls, xsboxcompst, xsboxcomptt, xsboxconstant, xsboxcutoffpl, xsboxcyclabs, xsboxdisk, xsboxdiskbb, xsboxdiskline, xsboxdiskm, xsboxdisko, xsboxdiskpn, xsboxdust, xsboxedge, xsboxsequil, xsboxexpabs, xsboxexpdec, xsboxexpfac, xsboxgabs, xsboxgaussian, xsboxgnei, xsboxgrad, xsboxgrbm, xsboxshighecut, xsboxshrefl, xsboxslaor, xsboxslorentz, xsboxsmeka, xsboxmekal, xsboxsmkcfow, xsboxsnei, xsboxsnotch, xsboxsnpshock, xsboxsnsa, xsboxsnteea, xsboxspcfabs, xsboxspexpwrlw, xsboxspexrav, xsboxspexriv, xsboxsphabs, xsboxsplabs, xsboxsplcabs, xsboxspesm, xsboxspowerlaw, xsboxspwab, xsboxsraymond, xsboxsredden, xsboxsrededge, xsboxsrefsch, xsboxssedov, xsboxssmedge, xsboxsspline, xsboxssrcut, xsboxssresc, xsboxssssice, xsboxsstep, xsboxstbabs, xsboxstbgrain, xsboxstbvarabs, xsboxsuvred, xsboxsvapec, xsboxsvarabs, xsboxsvbremss, xsboxsvequil, xsboxsvgnei, xsboxsvmcfow, xsboxsvmekal, 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/xspshock.html>
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