



AHELP for CIAO 3.4

xsdiskm

Context: [sherpa](#)

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

Synopsis

Disk model with gas pressure viscosity. XSpec model.

Description

A disk model with gas pressure viscosity. The spectrum from an accretion disk where the viscosity scales as the gas pressure. From Stella and Rosner 1984, ApJ, 277, 312.

xsdiskm Parameters

Number	Name	Description
1	accrate	accretion rate in Eddington luminosities
2	NSmass	central mass in units of solar mass
3	Rinn	inner disk radius in gravitational (= 3 Schwarzschild) radii
4	alpha	viscosity
5	norm	$\cos(i)/d^2$, where i is the inclination of the disk and d is the distance in units of 10 kpc

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](#), [shloge](#), [sin](#), [sqrt](#), [steph1d](#), [steplo1d](#), [tan](#), [tpsf](#), [tpsf1d](#), [usermodel](#), [xs](#), [xsabsori](#), [xsacisabs](#), [xsapec](#), [xsbapec](#), [xsbody](#), [xsbodyrad](#), [xsbe xrav](#), [xsbe xriv](#), [xsbknpower](#), [xsbtc](#), [xsbremss](#), [xsbvapec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#),

Ahelp: xsdiskm – CIAO 3.4

xsc6vmekl, xscabs, xscemekl, xscevmkl, xscflow, xscmpbb, xscmpls, xscmpst, xscmppt, xscconstant,
xscutoffpl, xscyclabs, xsdisk, xsdiskbb, xsdiskline, xsdisko, xsdiskpn, xsdust, xsedg, xsequil, xsexpabs,
xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsggrad, xsgrbm, xshighecut, xshrefl, xslaor, xslorentz,
xsmeka, xmekal, xsmkcfow, xsnei, xsnotch, xsnpshock, xnsa, xnntea, xspcfabs, xspgpwrlw,
xspextrav, xspextriv, xspfabs, xsplabs, xspicabs, xspesm, xspowerlaw, xspshock, xspwab, xrraymond,
xsredden, xsedg, xrefsch, xssedov, xssmedg, xsspline, xssrcut, xssresc, xssssice, xsstep, xstbabs,
xstbgrain, xstbvarabs, xsubred, xsvap, xsvvarabs, xsvbremss, xsvsequil, xsvgnei, xsvmcfow, xsvmeka,
xsvmekal, xsvnei, xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xsvsedov, xswabs, xswndabs, xsxion,
xszbbody, xszbremss, xszedg, xszgauss, xszhighcut, xszpcfabs, xszphabs, xszpowerlw, xsztbabs,
xszvarabs, xszvfeabs, xszvphabs, xszwabs, xszwndabs

slang

usermodel

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