

*AHELP for CIAO 3.4***xspowerlaw**Context: [sherpa](#)*Jump to:* [Description](#) [Bugs](#) [See Also](#)

## Synopsis

Simple photon power law. XSpec model.

## Description

Simple photon power law.

$$A(E) = K (E/1 \text{ keV})^{(-\text{PhoIndx})}$$

### xspowerlaw Parameters

Number	Name	Description
1	PhoIndx	photon index of power law (dimensionless)
2	norm (K)	photons/keV/cm^2/s at 1 keV

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](#), [shloge](#), [sin](#), [sqrt](#), [stephi1d](#), [stepl01d](#), [tan](#), [tpsf](#), [tpsf1d](#), [usermodel](#), [xs](#), [xsabsori](#), [xsacisabs](#), [xsappec](#), [xsbapec](#), [xsbbbody](#), [xsbbbodyrad](#), [xsbxrav](#), [xsbxriv](#), [xsbknpower](#), [xsbmcmc](#), [xsbrems](#), [xsbvappec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#), [xsc6vmevl](#), [xscabs](#), [xscemekl](#), [xscenvml](#), [xscflow](#), [xscmpbb](#), [xscmpls](#), [xscmpst](#), [xscmpstt](#), [xconstant](#), [xscutoffpl](#), [xscyclabs](#), [xsdisk](#), [xsdiskbb](#), [xsdiskline](#), [xsdiskm](#), [xsdisko](#), [xsdiskpn](#), [xsdust](#), [xseedge](#), [xsequil](#), [xsexpabs](#), [xsexpdec](#), [xsexpfac](#), [xsgabs](#), [xsgaussian](#), [xsgnei](#), [xgrad](#), [xsgrbm](#), [xshighecut](#), [xshrefl](#), [xslaor](#), [xslorentz](#), [xsmeka](#), [xsmkcf](#), [xsnei](#), [xsnotch](#), [xsnphock](#), [xsnsa](#), [xsntee](#), [xspcfabs](#),

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xspowerlw, xspexrav, xspexriv, xspabs, xsplabs, xspcabs, xsposm, xspshock, xspwab, xsraymond,  
xsreddens, xsredges, xsrefsch, xssedov, xssmedge, xsspline, xssrcut, xssresc, xsssicce, xssstep, xstbabs,  
xstbgrain, xstbvarabs, xsuvred, xsvapec, xsvarabs, xsvbremss, xsvequil, xsvgnei, xsvmcflow, xsvmekal,  
xsvmekal, xsvnei, xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xsvsedov, 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/xspowerlaw.html>

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