

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

## Synopsis

A 1-D file-based response matrix model.

## Description

FRMF is a file-based RMF model that represents the redistribution matrix which maps photon energy to, e.g., PHA bin.

Note that in Sherpa analyses, the energy-space binning of the RMF (found typically in the ENERG\_LO and ENERG\_HI columns of the MATRIX extension of the RMF file) does not have to match the analogous energy-space binning of a matching ARF. (This is also true if instead of energy, the RMF is defined as a function of wavelength.)

See the documentation on the INSTRUMENT command. See also the RSP and FARF1D instrument models.

### FRMF Parameters

Number	Name	Description
1	rmf	RMF file name

## Bugs

See the [Sherpa bug pages](#) online for an up-to-date listing of known bugs.

## 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](#), [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](#), [xsbbbody](#), [xsbbbodyrad](#), [xsbxexrav](#), [xsbxexriv](#), [xsbknpower](#), [xsbmcl](#), [xsbrems](#), [xsbvappec](#), [xsc6mekl](#), [xsc6pmekl](#), [xsc6pvmkl](#), [xsc6vmeekl](#), [xscabs](#), [xscemekl](#), [xscevmkl](#), [xscflow](#), [xscompbb](#), [xscompls](#), [xscompst](#), [xscomptt](#), [xsconstant](#),

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xscutoffpl, xscyclabs, xsdisk, xsdiskbb, xsdiskline, xsdiskm, xsdisko, xsdiskpn, xsdust, xsedge, xsequil,  
xsexpabs, xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsggrad, xsgrbm, xshighecut, xshrefl, xslaor,  
xslorentz, xsmeka, xsmekal, xsmkcfflow, xsnei, xsnotch, xsnps Shock, xsnsa, xsn teeaa, xspcfabs,  
xspewpwlw, xspexrav, xspexriv, xsphabs, xsplabs, xsplcabs, xsposm, xspowerlaw, xspshock, xspwab,  
xsr raymond, xsredden, xsredge, xsrefsch, xss edov, xssmedge, xsspline, xssrcut, xssresc, xssssice, xssstep,  
xstbabs, xstbgrain, xstbvarabs, xsu vred, xsvapec, xsva rabs, xsvbremss, xsv equil, 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/frmf.html>

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