Chandra X-ray Center

AHELP for CIAO 3.4　　**devaucouleurs**　　Context: sherpa

Jump to: Description Bugs See Also

Synopsis

DeVaucouleurs profile. Integration OFF.

Description

A 2–D de Vaucouleurs model:

```
f(x,y) = f(r) = A exp[-7.67 z^0.25 - 1 ]
```

where

```
z = sqrt[(x_maj/r_maj)^2+(x_min/r_min)^2]
                r_maj = r_0
            r_min = (1-epsilon)r_0
    x_maj = (x-x_o)cos(theta) + (y-y_o)sin(theta)
    x_min = -(x-x_o)sin(theta) + (y-y_o)cos(theta)
```

DEVAUCOULEURS Parameters

Number	Name	Description
1	r0	core radius r_0
2	xpos	x mean position x_o
3	ypos	y mean position y_o
4	ellip	ellipticity epsilon
5	theta	angle of ellipticity theta
6	ampl	amplitude A at (x_o,y_o)

See "ahelp integrate" for further information about source model integration.

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, bpl1d, const1d, const2d, cos, delta1d, delta2d,

dered, 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, steplo1d, tan, tpsf, tpsf1d, usermodel, xs, xsabsori, xsacisabs, xsapec, xsbapec, xsbbody, xsbbodyrad, xsbexrav, xsbexriv, xsbknpower, xsbmc, xsbremss, xsbvapec, xsc6mekl, xsc6pmekl, xsc6pvmkl, xsc6vmekl, xscabs, xscemekl, xscevmkl, xscflow, xscompbb, xscompls, xscompst, xscomptt, xsconstant, xscutoffpl, xscyclabs, xsdisk, xsdiskbb, xsdiskline, xsdiskm, xsdisko, xsdiskpn, xsdust, xsedge, xsequil, xsexpabs, xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsgrad, xsgrbm, xshighecut, xshrefl, xslaor, xslorentz, xsmeka, xsmekal, xsmkcflow, xsnei, xsnotch, xsnpshock, xsnsa, xsnteea, xspcfabs, xspegpwrlw, xspexrav, xspexriv, xsphabs, xsplabs, xsplcabs, xsposm, xspowerlaw, xspshock, xspwab, xsraymond, xsredden, xsredge, xsrefsch, xssedov, xssmedge, xsspline, xssrcut, xssresc, xssssice, xsstep, xstbabs, xstbgrain, xstbvarabs, xsuvred, xsvapec, xsvarabs, xsvbremss, xsvequil, xsvgnei, xsvmcflow, xsvmeka, xsvmekal, xsvnei, xsvnpshock, xsvphabs, xsvpshock, xsvraymond, xsvsedov, xswabs, xswndabs, xsxion, xszbbody, xszbremss, xszedge, xszgauss, xszhighect, xszpcfabs, xszphabs, xszpowerlw, xsztbabs, xszvarabs, xszvfeabs, xszvphabs, xszwabs, xszwndabs

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usermodel