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 AHELP for CIAO 3.4

## polynom2d

Context: [sherpa](#)

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### Synopsis

2-D polynomial function. Integration ON.

### Description

A 2-D polynomial model of order  $\leq 2$ :

$$f(x, y) = c_0 + c_{x1} x + c_{x2} x^2 + c_{y1} y + c_{y2} y^2 + c_{(x1,y1)} xy + c_{(x1,y2)} x y^2 + c_{(x2,y1)} x^2 y + c_{(x2,y2)}$$

#### POLYNOM2D Parameters

Number	Name	Description
1	constant	constant coefficient
2	cx1	coefficient c_x1
3	cx2	coefficient c_x2
4	cy1	coefficient c_y1
5	cy2	coefficient c_y2
6	cx1y1	coefficient c_(x1,y1)
7	cx1y2	coefficient c_(x1,y2)
8	cx2y1	coefficient c_(x2,y1)
9	cx2y2	coefficient c_(x2,y2)

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](#), [devaucouleurs](#), [edge](#), [erf](#), [erfc](#), [farf](#), [farf2d](#), [fpsf](#), [fpsf1d](#), [frmf](#), [gauss1d](#), [gauss2d](#), [gridmodel](#), [hubble](#),

## Ahelp: polynom2d – CIAO 3.4

jdpileup, linebroad, lorentz1d, lorentz2d, models, nbeta, ngauss1d, poisson, polynom1d, 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, xsboxrav, xsboxriv, xsbknpower, xsbsmc, xsbremss, xsbvapec, xsc6mekl, xsc6pmekl, xsc6pvmkl, xsc6vmekl, xcabs, xscemekl, xscevmkl, xscflow, xscmpbb, xscmpls, xscmpst, xscmptt, xsconstant, xscutoffpl, xscyclabs, xsdisk, xsdiskbb, xsdiskline, xsdiskm, xsdisko, xsdiskpn, xs\_dust, x\_sedge, xsequil, xsexpabs, xsexpdec, xsexpfac, xsgabs, xsgaussian, xsgnei, xsggrad, xsgrbm, xshighecut, xshrefl, xslaor, xslorentz, xsmeka, xsmekal, xsmkcfLOW, x\_snei, x\_snotch, x\_snpshock, x\_snsa, x\_snteea, x\_spcfabs, x\_spegpwr1w, x\_spe\_xrav, x\_spe\_xriv, x\_sphabs, x\_splabs, x\_splcabs, x\_sposm, x\_spowerlaw, x\_sps\_hock, x\_spwab, x\_sraymond, x\_sredden, x\_sredge, x\_srefsch, x\_ssedov, x\_ssmedge, x\_ssp1ine, x\_ssrcut, x\_ssrESC, x\_ssssice, x\_sstep, x\_stbabs, x\_stbgrain, x\_stbvarabs, x\_suvred, x\_svapec, x\_svarabs, x\_svbremss, x\_svequil, x\_svgnei, x\_svmcflow, x\_svmeka, x\_svmekal, x\_svnei, x\_svnps\_hock, x\_svp\_habs, x\_svpshock, x\_svraymond, x\_svsedov, x\_swabs, x\_swndabs, x\_sxion, x\_szbbody, x\_szbremss, x\_szedge, x\_szgauss, x\_szhighect, x\_szpcfabs, x\_szphabs, x\_szpower1w, x\_sztbabs, x\_szvarabs, x\_szvfeabs, x\_szvp\_habs, x\_szwabs, x\_szwndabs

*slang*

usermodel

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URL:  
<http://exc.harvard.edu/ciao3.4/polynom2d.html>  
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