
Subject: Re: spherical harmonic representation

Posted by [Kenneth P. Bowman](#) on Tue, 21 Jul 2009 14:55:33 GMT

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In article <k-bowman-C664B6.09160321072009@news.tamu.edu>,
"Kenneth P. Bowman" <k-bowman@null.edu> wrote:

Had the theta and phi arguments switched. This works.

Ken

pro sph_plot

```
l=5      ;harmonic degree
m=2      ;azimuthal order |m| <= l
np = 101 ;No. of inclination angle(theta) and azimuthal angle(phi)

x = 360.0D0*DINDGEN(np)/(np-1)          ;phi = 0, 360
y = 180.0D0*DINDGEN(np)/(np-1)          ;theta = 0, 180
xx = REBIN(x, np, np)
yy = REBIN(REFORM(y, 1, np), np, np)

ff = real_part(spher_harm(yy*dtor, xx*dtor, l, m, /doub))

window, 0, xsize = 512, ysize = 512, title = 'Spherical Harmonic'

MAP_SET, /CYLINDRICAL

contour, ff, x, y-90.0, /ove, nlevels=10

isurface, ff, x, y-90.0

end
```
