
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*!dtr, xx*!dtr, 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
