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Subject: Re: summation and 3d plot

Posted by [penteado](#) on Fri, 30 Oct 2009 04:12:50 GMT

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On Oct 30, 1:55 am, Jeremy Bailin <astroco...@gmail.com> wrote:

```
> Can't you replace the for loops with:
>
> nnx = n_elements(nx)
> nny = n_elements(ny)
> nN = n_elements(N)
> x0 = rebin(reform(x0,nnx,1,1),nnx,nny,nN)
> y0 = rebin(reform(y0,1,1,nny),nnx,nny,nN)
> phi = rebin(reform(phi,1,1,nN),nnx,nny,nN)
> r0 = sqrt(x0^2 + y0^2)
> x = abs(x0*cos(phi) + y0*sin(phi))
> y = -x0*sin(phi) + y0*cos(phi)
> h = 50.-y
> deffs = sqrt(d^2 + 2./mu*tan(a/2.*!pi/180.))
> S = deffs^2 * sin(atan(x/h))^3 / (4.*h)^2 * 100.
> deffr = d + alog(2.)/mu*tan(a/2.*!pi/180.)
> R = sqrt((h/f*ri)^2 + (deffr*(h+f)/f)^2)
>
> -Jeremy.
```

Yes, that is about what I was hinting at when I said it could be done without loops. But given the initial question, I thought that jumping directly to this level might make it difficult to understand.

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