Subject: Re: summation and 3d plot
Posted by penteado on Thu, 29 Oct 2009 00:40:03 GMT
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On Oct 28, 9:12 pm, Nicki <nickireite...@yahoo.de> wrote:

> However the r0 did not work. And there is another error. The error
> message says "subscript range values of the form low:high must be >=0,
> < size, with low <= high: S" and the error is in the S[i,j,*]=...
> line...
> What does that mean???

There were a few typos. This should work:

```
pro testif
nrows=1.
dfov=60.
mu=438.689
ri=0.1
wdet=45.
r=50.
a=73.73
N=10
d=0.736
f=29.33
nx=findgen(64)
ny=findgen(64)
x0=(30./32.*(0.5+nx))-30.
y0=(30./32.*(0.5+ny))-30.
N=findgen(10)
S=dblarr(n_elements(nx),n_elements(ny),n_elements(N))
phi=N*36*!pi/180
for i=0,n_elements(nx)-1 do begin
  for j=0,n_elements(ny)-1 do begin
    r0=sqrt(x0[i]^2+y0[j]^2)
    if (r0 gt 30.) then S[i,j,*]=0 else begin
      x=abs(x0[i]*cos(phi)+y0[j]*sin(phi))
      y=-x0[i]*sin(phi)+y0[j]*cos(phi)
      h=50.-y
      deffs=sqrt(d^2+2/mu*tan(a/2*!pi/180))
      S[i,j,*]=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)
    endelse
  endfor
endfor
S_plot=total(S,3)
print, x0, y0, s_plot
```

```
isurface,S_plot,x0,y0
end
```