Subject: Re: interpolating flux
Posted by Matthew on Wed, 23 Jan 2013 21:49:47 GMT
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> I have two black body spectra at different temperature i.e at 5000K and 5200K. Does anyone know How I can interpolate the flux of black body spectra between 5000K 5200K at a step of 50K.

It won't work very well because you only have two data points. This is just one attempt. There are probably better ways (i.e. interpolating over a grid with INTERPOLATE).

```
nNewSpectra = 10
mySpectra5000 = randomu(3, 1, nNewSpectra)
mySpectra5200 = randomu(3, 1, nNewSpectra)
myT = [5000, 5200]

wantedT = findgen(nNewSpectra) / (nNewSpectra - 1.0D) * (5200 - 5000) + 5200

newSpectra = fltarr(nT, nNewSpectra)
for i = 0, nNewSpectra-1 do begin
   newSpectra[i,*] = interpol([mySpectra5000[i], mySpectra5200[i]], myT, wantedT)
endfor

end
```