
Subject: Re: interpolating flux

Posted by [Craig Markwardt](#) on Wed, 23 Jan 2013 16:15:12 GMT

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On Wednesday, January 23, 2013 7:06:51 AM UTC-5, idlhelp wrote:

> Dear All,

>

> 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.

If it's a true black body spectrum, then consider that the spectrum can be computed exactly without interpolation.

http://en.wikipedia.org/wiki/Planck%27s_law

If you really want to use interpolation, I would recommend computing the $\text{ALOG}_{10}(\text{flux})$ of your gridded spectra, interpolating those log-values, then converting back to flux.

Craig
