Subject: Re: gaussian convolution
Posted by helaha on Fri, 23 Mar 2007 17:03:48 GMT
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Hello Tim,
If lower resolution means, that you want to reduce the number of wavelength bins, then I think interpolation (INTERPOLATE, REBIN, or CONGRID) is the way.
e.g.:
Spec = FLOATARR(100)   ;100 initial intensity values
Spec =.............   ; Set Spec with your values
Spec = CONGRID(Spec, 50, /INTERP);now the spectrum has only 50 wavelength bins

hope this helps,
helaha

On Mar 23, 4:00 pm, mikeinthe...@yahoo.com wrote:
> Hi there,
>
> I have a (theoretically computed) spectrum and I would like to degrade
> it to a lower resolution.
>
> I was wondering if there is any standard procedure to do it and/or
> some "pre-cooked" routine in IDL. Is there any gaussian filter
> routine?
>
> My first guess would be to use a gaussian filter in order to reduce
> the resolution. The spectrum is (intensity vs. wavelength),so I
> think 1D gaussian filter would be OK. Is there anyone with experience
> on it ?
>
> Suggestions are welcome, thanks! Cheers,
> Tim