
Subject: Re: Convolve a spectrum (from MODTRAN) with a spectral response function

Posted by [Mat](#) on Wed, 30 Dec 2009 03:55:10 GMT

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On Dec 30, 4:41 pm, Mat <m...@waikato.ac.nz> wrote:

Sorry I will try again!

Hi all

I would like to convolve a spectrum (output from MODTRAN) with a spectral response curve (Landsat7 B62) and then integrate the convoluted result. As you can see from the example below the spectral resolution does not match.

Eg. Spectrum:

Wavenumber	Radiance
800.0	7.52E-004
801.0	7.66E-004
802.0	7.58E-004
803.0	7.25E-004
804.0	7.23E-004
805.0	7.62E-004

Eg. Response

Wavenuber	Relative Spectral response
800.00000	0.2
800.64051	0.29
801.28205	0.27
801.92462	0.28
802.56822	0.36
803.21285	0.36
803.85852	0.39
804.50523	0.41
805.15298	0.42
805.80177	0.43
806.45161	0.45

Any help would be much appreciated.
