
Subject: Peak detection

Posted by [Watchthis_](#) on Wed, 03 Jul 2013 01:41:54 GMT

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Hi

I'm trying to construct a very basic and simple algorithm that can search a large amount of data for peaks at a specific energy. Would anyone be kind enough to advise me on how I can approach this.

Subject: Re: Peak detection

Posted by [Chip Helms](#) on Tue, 09 Jul 2013 18:55:38 GMT

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Hey, not sure if you found a solution yet or not. I assume you're dealing with something like a power spectrum where you have an array of the power at each frequency (or I suppose energy in your case) and you want to know if the peak occurs at a certain frequency, correct? (It's been awhile since I've dealt with fourier transforms, but I think the terminology I'm using is correct, heh.)

If you are then you might try using the MAX function with the DIMENSION keyword and have it return the index of the maximum value. (If each spectrum is a row in an array, I think you'd use DIMENSION=1)
