
Subject: Re: Using 1D FFT to decompose the provided hurricane data in terms of wavenumbers.

Posted by [Burch](#) on Thu, 05 Mar 2015 15:41:43 GMT

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> Theta = atan(y, x)

>

> This will give you results ranging from -pi to pi. To change to 0 to 2 pi do

>

> Theta = (theta + 2.0*pi) mod (2.0*pi)

Or, obviously, just combine the two lines

theta = (atan(y,x) + 2.0*pi) mod (2.0*pi)
