
Subject: dcomplexarr and phase

Posted by [zolile mtumela](#) on Tue, 06 Mar 2012 10:41:24 GMT

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Hi all

I got a program that is running here, In this program I want to use dcomplexarr function on filterdata:

my data:

Ny=360

T=20

naqy_array = naqy_array =(naqy_array)*(hanning(360))

timefilter = Digital_Filter(f_low*2*T,f_high*2*T,50,floor((Ny)/2))

;freqfilter=fft(timefilter)

nfreq=ntime/2

freq=findgen(nfreq)/(ntime*T)

freqfilter=fft(timefilter,/double)*ntime

filterdata=fft(naqy_array,/double)*freqfilter

inv_spec =fft(spec,/double,/inverse)

plot,abs(inv_spec)

phi = atan(inv_spec)

plot,phi

I need some help on the ff difficulties

I want to use dcomplexarr on filterdata so that it returns as

complex , But I dnt how?

calculate the phase angle, I dnt know if im done correctly and I would

like to calculate the amplitude

sqrt(float(inv_spec)^2 + imaginary(inv_spec)^2)

Its allowed to use inverse.

thank you in advance for ur time

Zolile
