Subject: Re: IDL FFT (spec -> interferogram) Posted by Robert Stockwell on Mon, 08 Apr 2002 17:34:45 GMT View Forum Message <> Reply to Message

Paul van Delst wrote:

- > But one doesn't always want the power spectrum. Usually (in my field at least) one wants the
- > complex valued spectrum where the imaginary component is known and happily zero. (Don't know if
- > Randall wants that tho')

> paulv

isn't that the same thing? (real eq complex with imag=0) If the interferrogram is indeed the autocorrelation function, then the power spectrum is all you have, you cannot deduce any phase info.

Having said that, it is conceivable that one can create a complex interferrogram (for instance, combining two different channels etc), but in the "usual" (i.e. that I am familiar with), an interferrogram is an scalar autocorrelation function.

Cheers, bob