Subject: Re: CHISQR_CVF question.
Posted by R.G. Stockwell on Wed, 19 Aug 2009 20:42:46 GMT
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"Paolo" <pgrigis@gmail.com> wrote in message news:5c82e9fd-2bb3-4f1b-9ca6-8e0586a00bc0@g19g2000vbi.google groups.com... Hi Bob,

I guess I am a bit confused as to what you are doing.

Is that it? (I hope I am not making too much a fool of myself:))

- start with a uniform distribution x
- fourier transform: y= FFT(x)
- study histogram of real(y), imaginary(y) and abs(y), compare with known distributions (gaussian, chisquare)?

If that is it, maybe you are having a histogram binsize problem?

That's what happens to me very often - I forget to account for histogram bin widths.

Ciao,	
Paolo	
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basically yes, abs(fft(ts))^2, and comparing it to chisquare from the IDL functions.

I have worked on it, but I think the result is off by a factor of 2. That is a factor of 2 too stringent.

The binsizes are fine (i think), they are correctly showing the distribution.

and the cumulative distribution and I normalized wrt to the number of points so that the histogram is in term of probability.

Perhaps you can check my understanding. If we have a 95% significance level,

then if we make a spectrum with 1000 points, shouldnt 50 of them be above that 95% line?

cheers,