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Subject: Re: Minimum and location of minimum through interpolation

Posted by [Craig Markwardt](#) on Mon, 30 Jan 2012 15:26:28 GMT

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On Jan 30, 3:33 am, Els <elias.rous...@gmail.com> wrote:

> Here is where the problem are:

>

> Due to undersampling, the actual minimum standard deviation may occur between two x-values, so I want to determine this through interpolation. That is not so difficult, but one additional problem is that "x" is an angle, so I can have jumps from 360 deg to 0 deg. If the minimum is around eg. 358 deg and I have undersampling, interpolation may give me a result of ~180 deg, which is obviously wrong.

You could try unwrapping your series first, for example by using PHUNWRAP, and then doing your minimum-finding procedure with the modified series.

Craig

<http://www.physics.wisc.edu/~craigm/idl/math.html#PHUNWRAP>

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