
Subject: Re: help with gaussfit

Posted by [Craig Markwardt](#) on Mon, 09 Jun 2003 14:16:15 GMT

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Tapuosi Lotoaniu <lotoaniu@atmos.ucla.edu> writes:

> Hi,
>
> given,
>
> yfit = gaussfit(x,y,A)
>
> I know that A(0) = height, and A(1) = centre of gaussian. How is the width
> A(2) defined? How do I get FWHM from the value?

A(2) is the 1-sigma width, as in $\exp(-(x-x_{\text{mean}})^2/(2*\sigma^2))$.

You should derive the conversion from sigma to full width half maximum yourself, (just set the gaussian to 1/2 and solve for x in terms of sigma), but it's close to 2.35.

Craig
