

tec 4. Show by numerical calculation that, for the Gaussian probability distribution, the full width at half maximum Γ is related to the standard deviation σ by the simple relation $\Gamma = 2.354\sigma$. This means that if you have a gaussian plot, you can easily estimate the σ of the plot by finding the two points that correspond to half of the maximum value of the gaussian, and then dividing the difference between these two points by 2.4. This technique is a fast estimation technique for estimating σ without the need of going through the trouble of fitting the distribution. And one more thing, **Box** that answer.