5. The resolution or 15 the standard direction of the desta set with larger relies represently a large somed in data, and small Values represently a nerrow spread. $\sigma = \left[\frac{1}{N}\sum_{i=1}^{N}(x_i - x_i)^2\right] ; \mu = Mean.$ f(x) = 0 200 - (x-M) = f (xmx) = aexp [-(x-1)] xmax at xmax= M. => \f(\mu) = \alpha = (x-m)^2/20^2 = \f $e^{-[x-\mu]^2/20^2} = e^{-1}$ $-(x-\mu)^2 = -\ln 2$ (x - m)2 = 202/n2

 $X = \pm \sigma \sqrt{2 \ln 2} + \mu.$ $FWHM = X_{+} - X_{-} = 2\sigma \sqrt{2 \ln 2} \simeq 2.35\sigma$

The First is would describe a measurement of the width of a peak that does not have short edges.

The First mensures the width of the peak of 1/2 of its maximum neight.