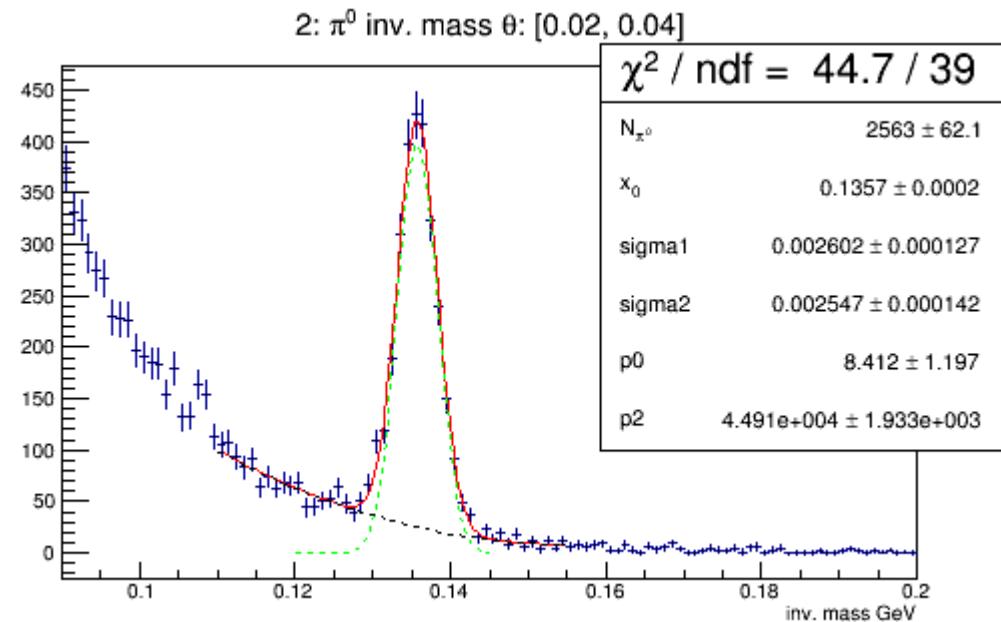


Fitting function

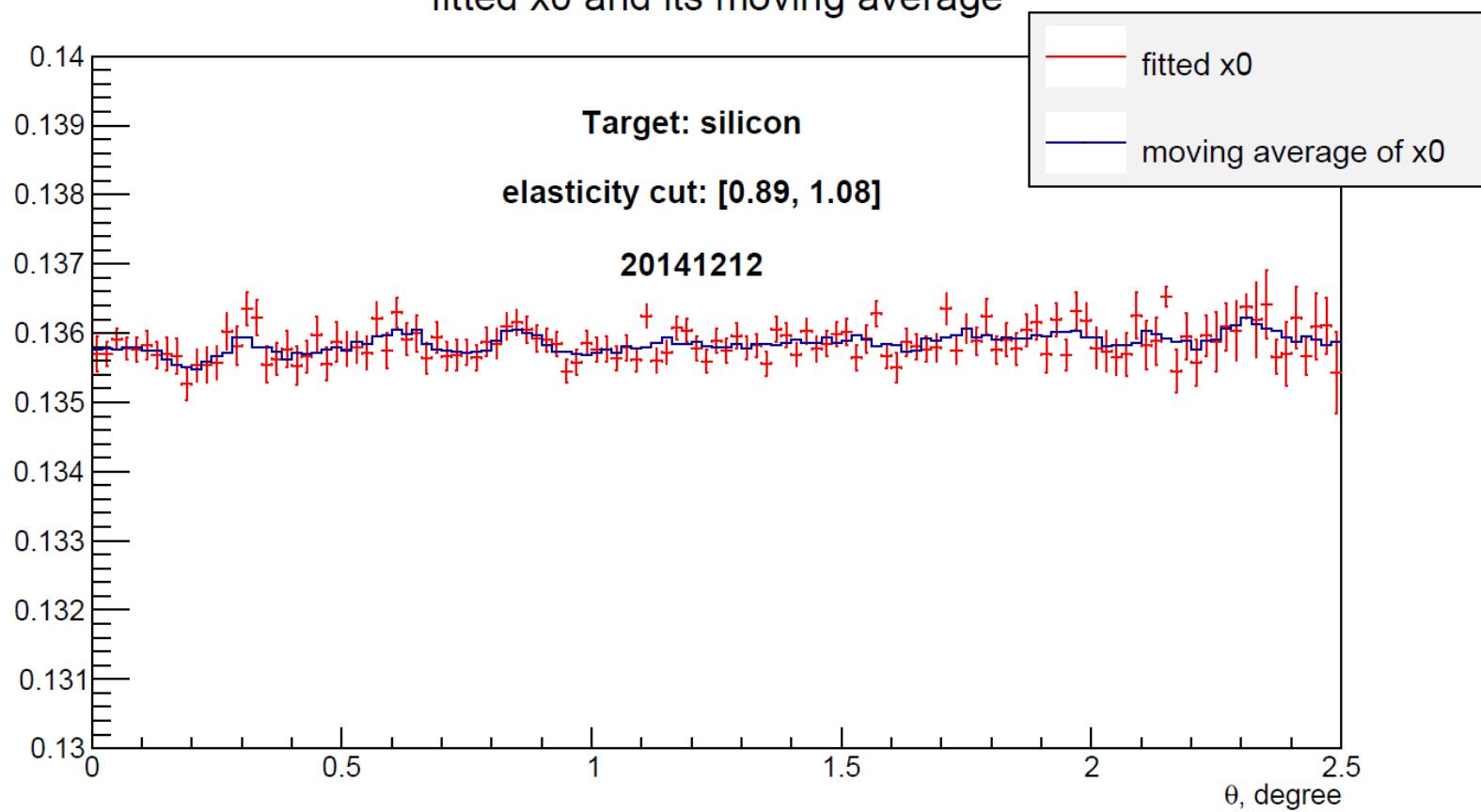
$$\frac{2N_{\pi^0}}{\sigma_1 + \sigma_2} \exp\left(-\frac{(x-x_0)^2}{\sigma_{1,2}^2}\right) + \text{Pol. Bkg}$$

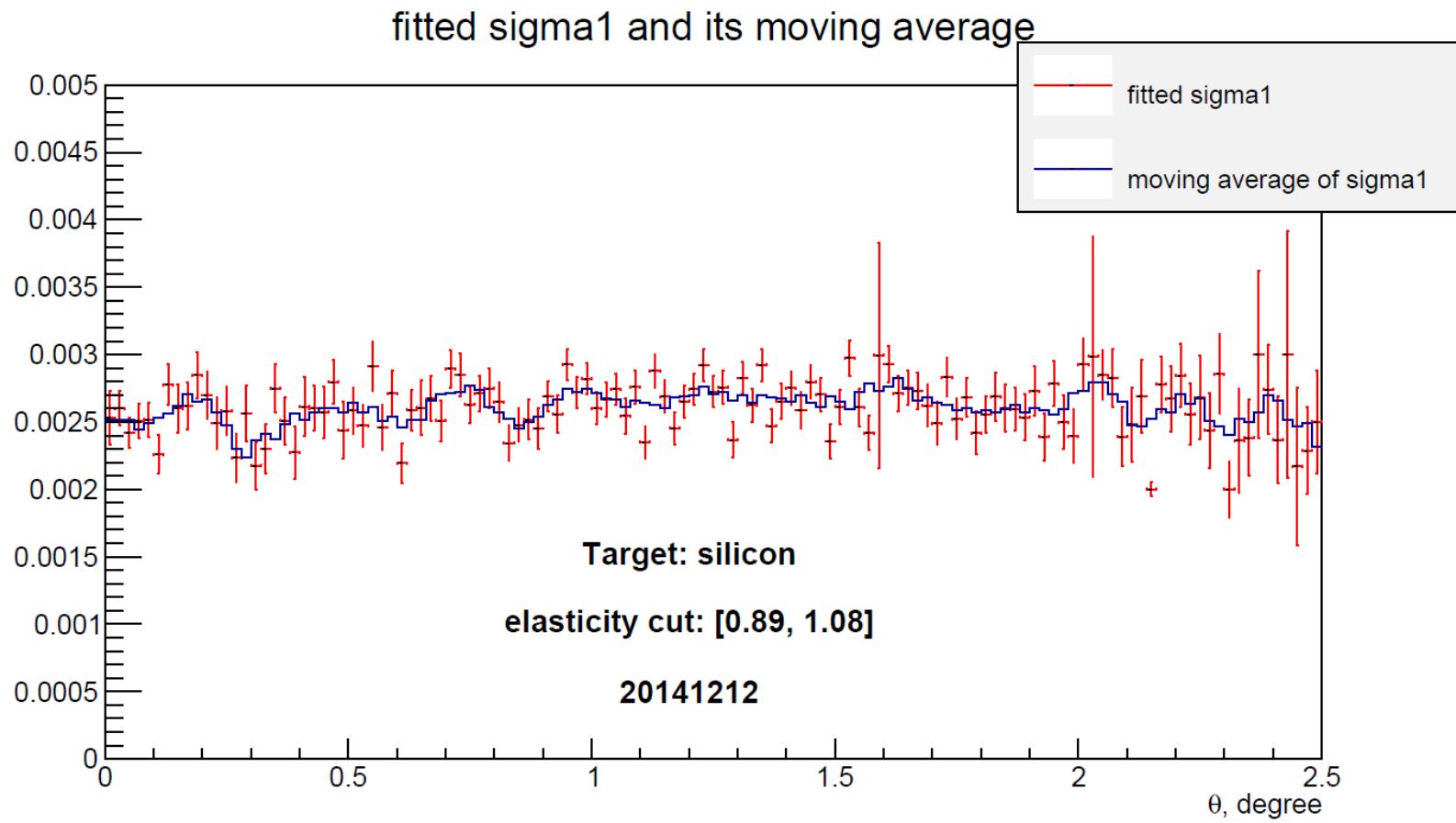
$x > x_0, \sigma = \sigma_1$

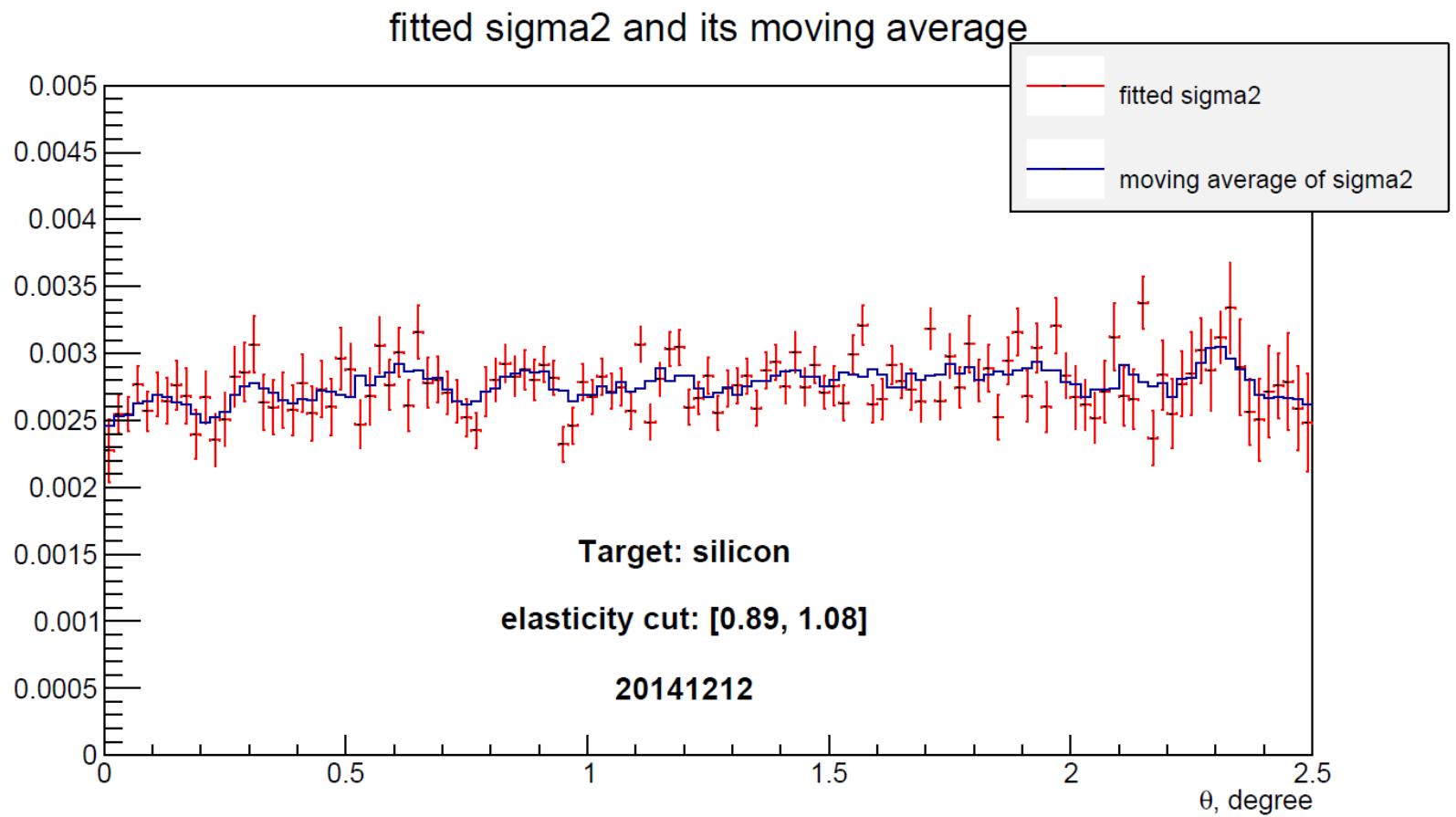
$x < x_0, \sigma = \sigma_2$

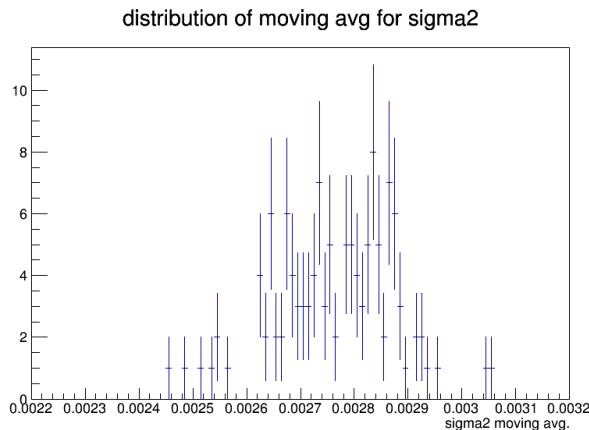
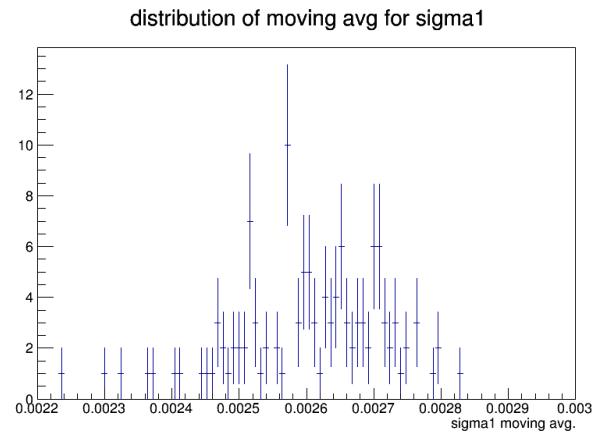
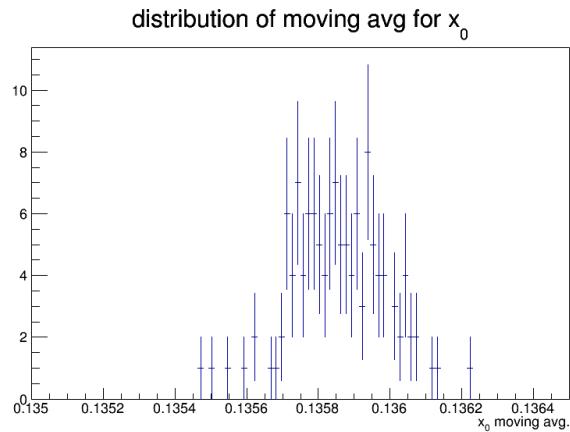


fitted x_0 and its moving average









RMS $x_0 =$

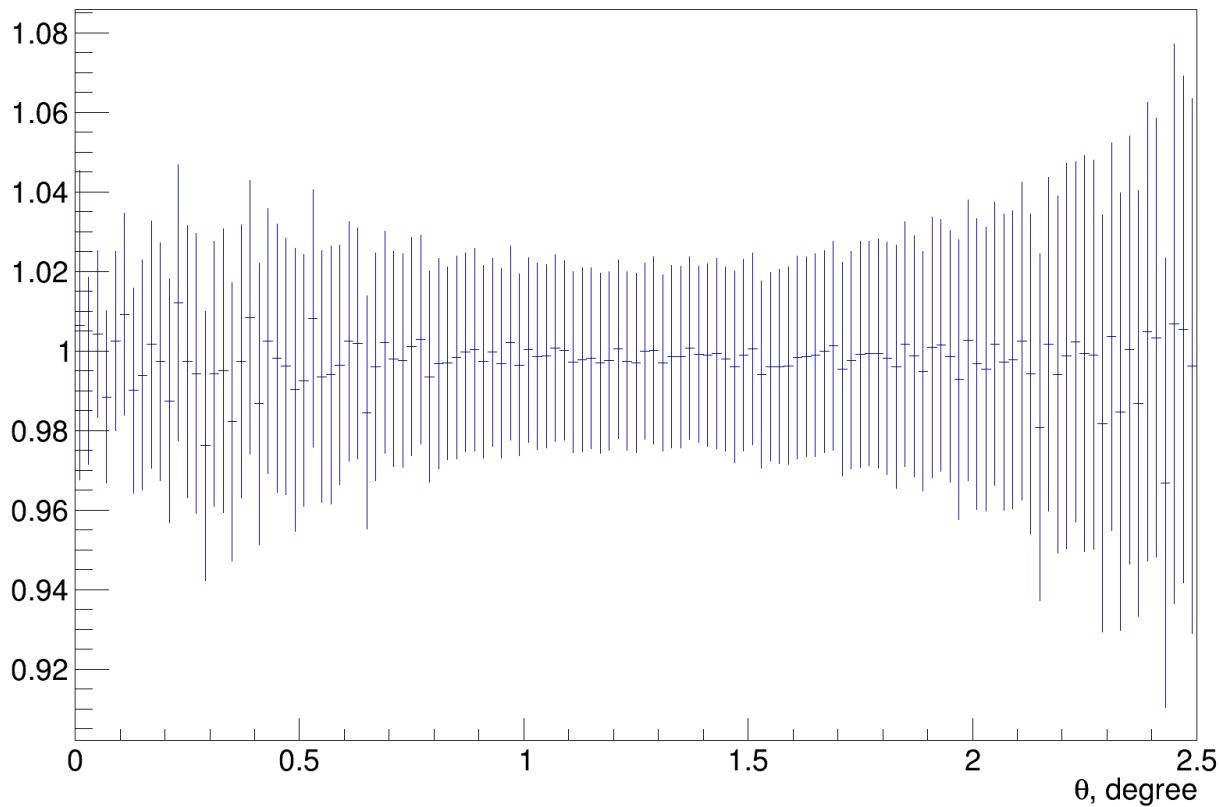
RMS $\sigma_1 =$

RMS $\sigma_2 =$

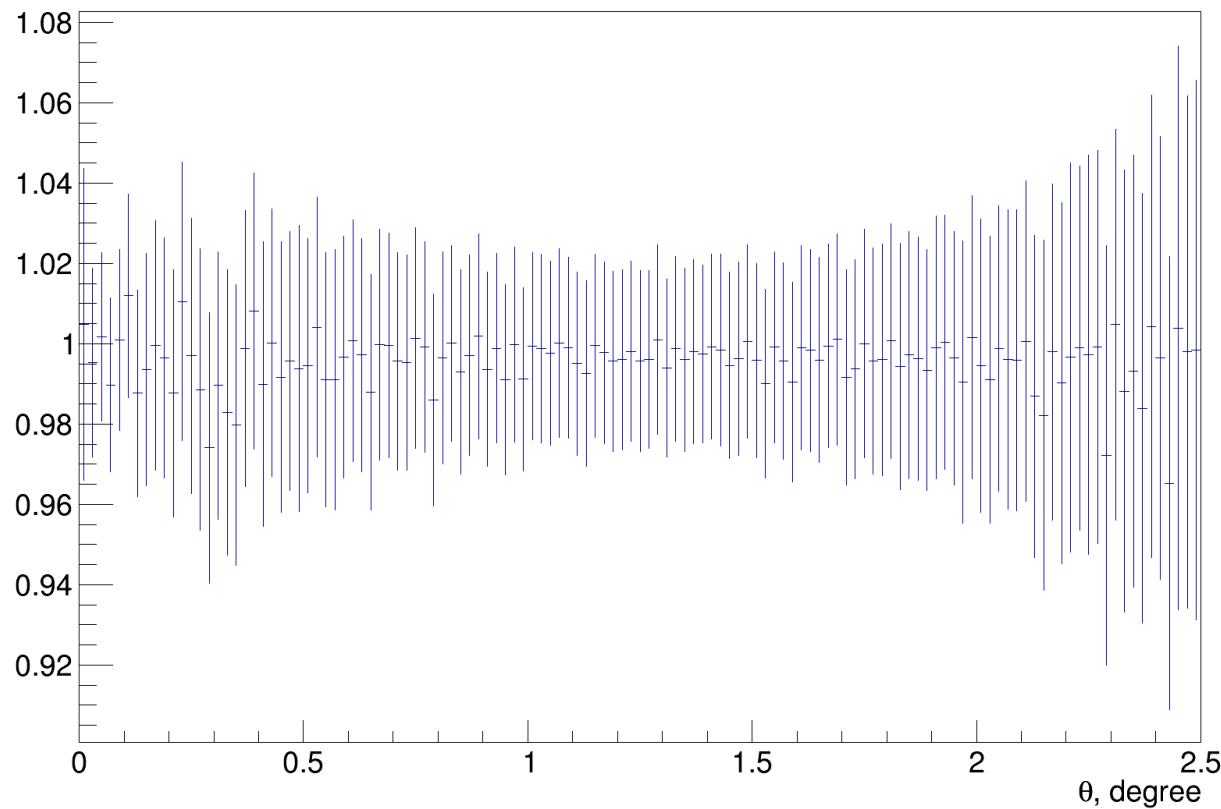
Extract uncorrected yield:

1. All parameters are variable
2. All Gaussian parameters are fixed to its avg.
3. All Gaussian parameters are fixed to its avg \pm RMS

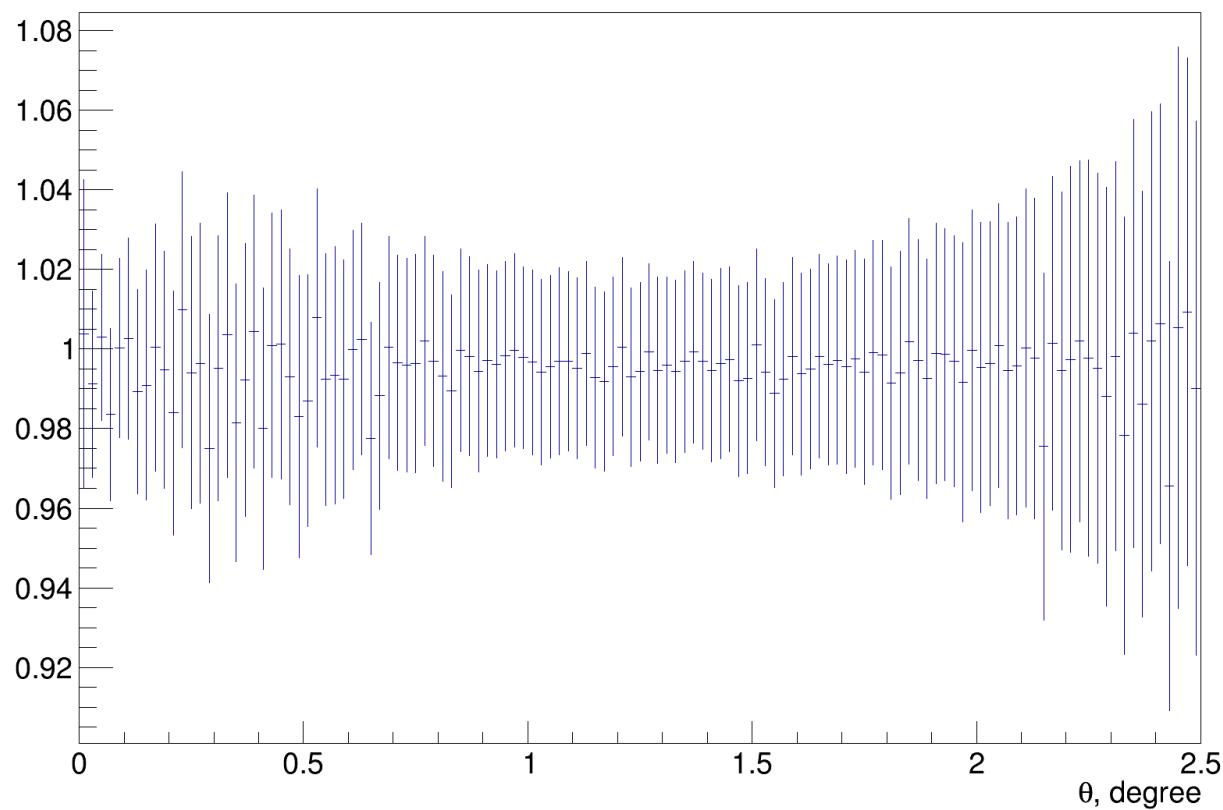
uncorrected yield comparison: fixed Gaussian parameters vs. varying parameters



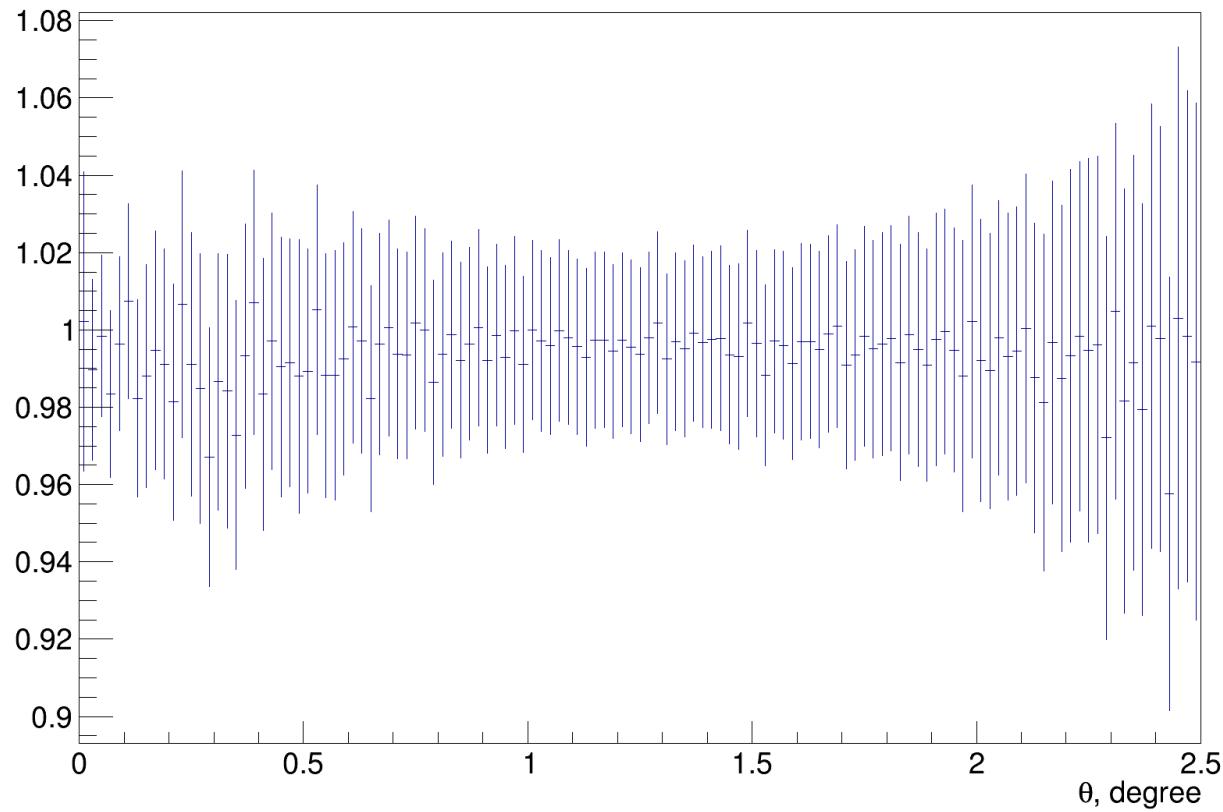
uncorrected yield comparison: fixed Gaussian parameters w/ lower x_0 vs. varying parameters



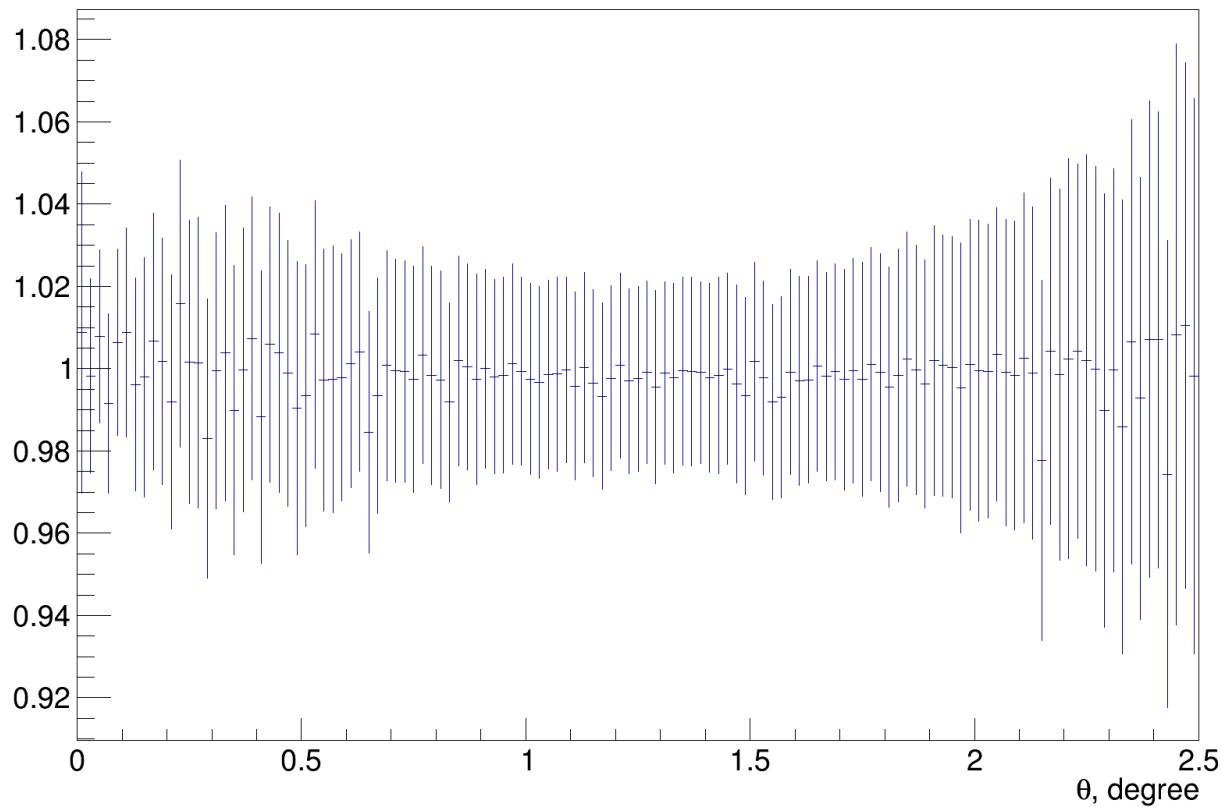
uncorrected yield comparison: fixed Gaussian parameters w/ upper x_0 vs. varying parameters



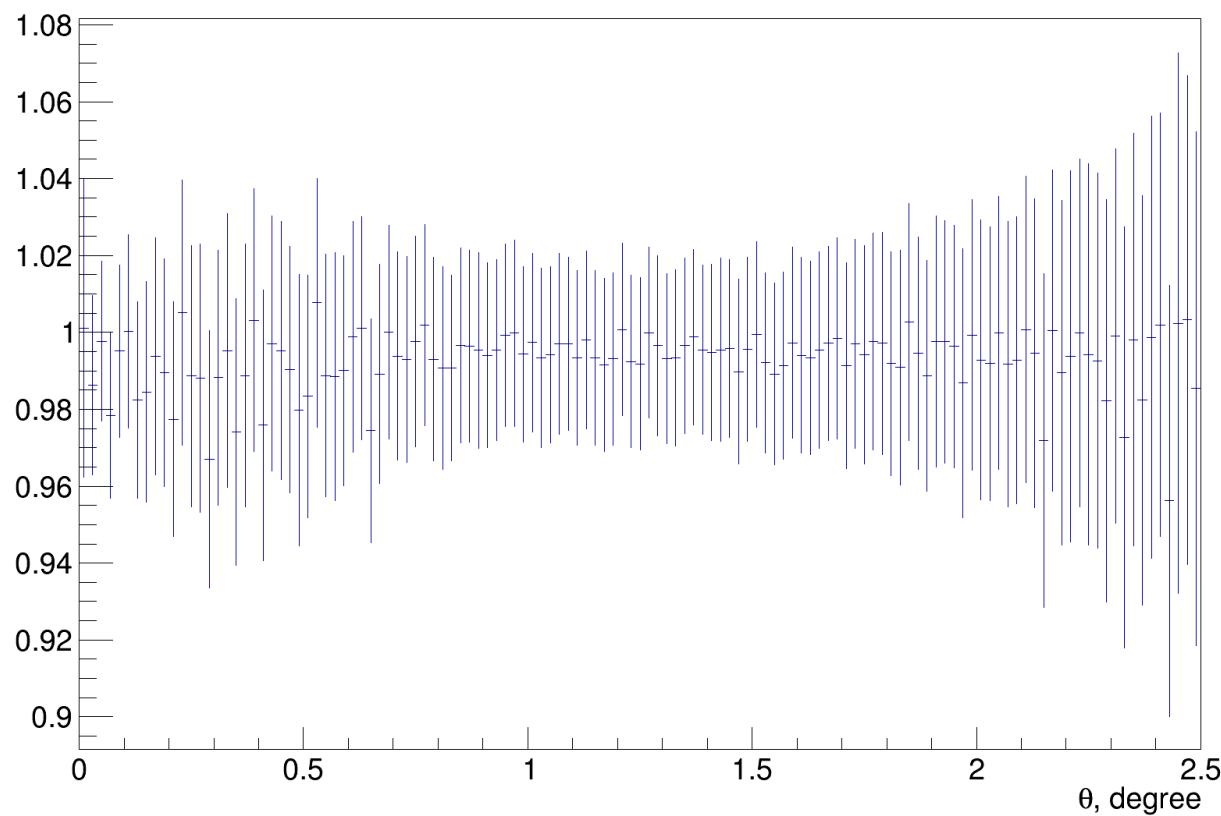
uncorrected yield comparison: fixed Gaussian parameters w/ lower σ_1 vs. varying parameters



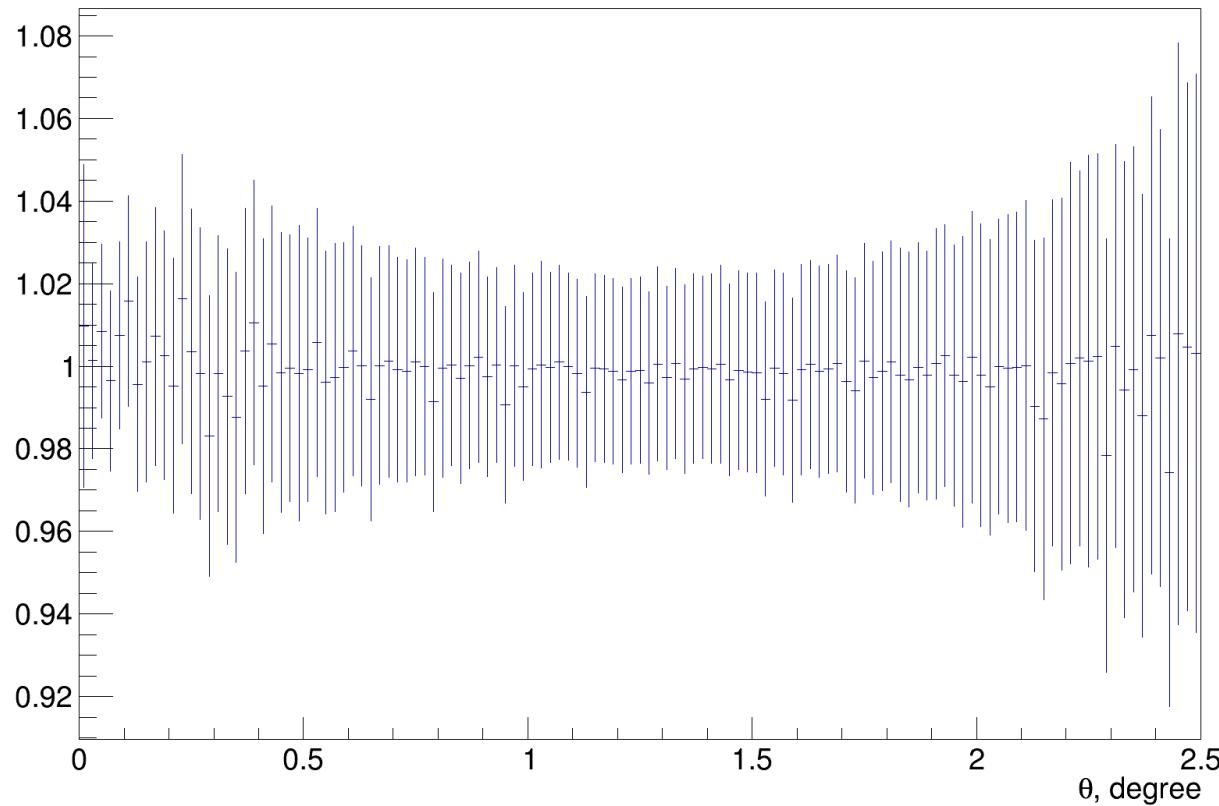
uncorrected yield comparison: fixed Gaussian parameters w/ upper σ_1 vs. varying parameters



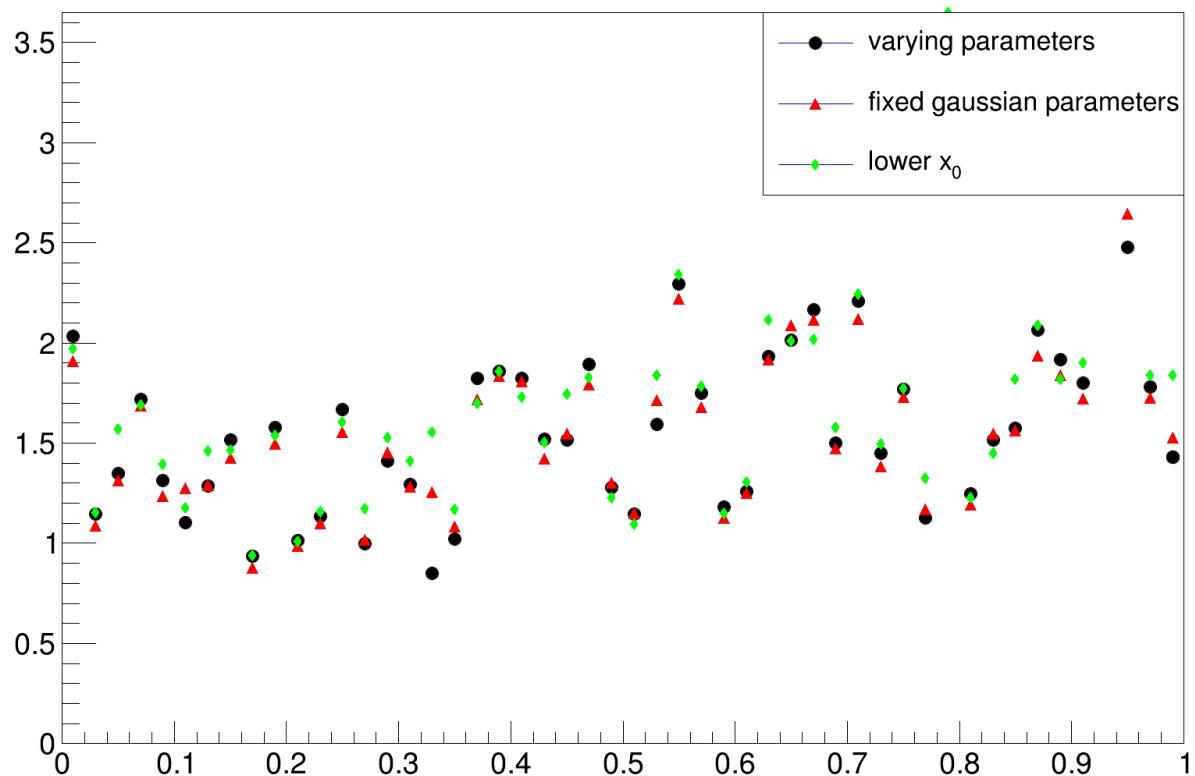
uncorrected yield comparison: fixed Gaussian parameters w/ lower σ^2 vs. varying parameters



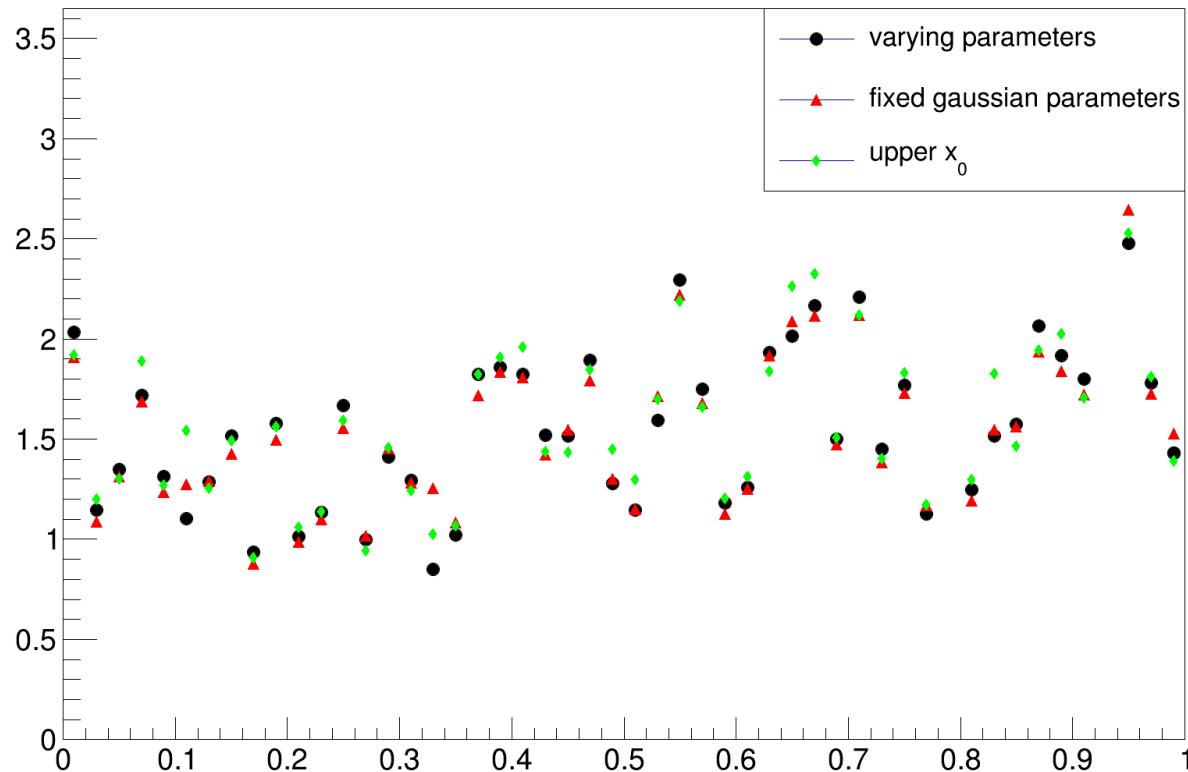
uncorrected yield comparison: fixed Gaussian parameters w/ upper σ^2 vs. varying parameters



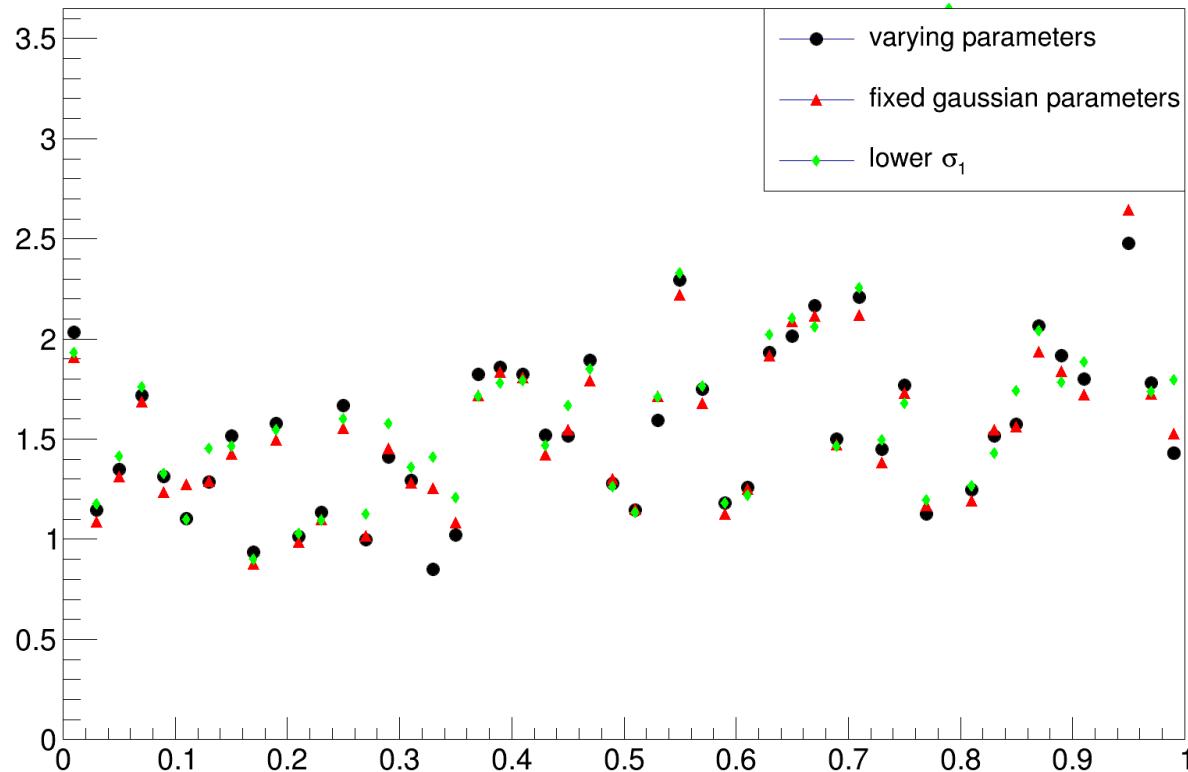
χ^2/NDF vs. θ



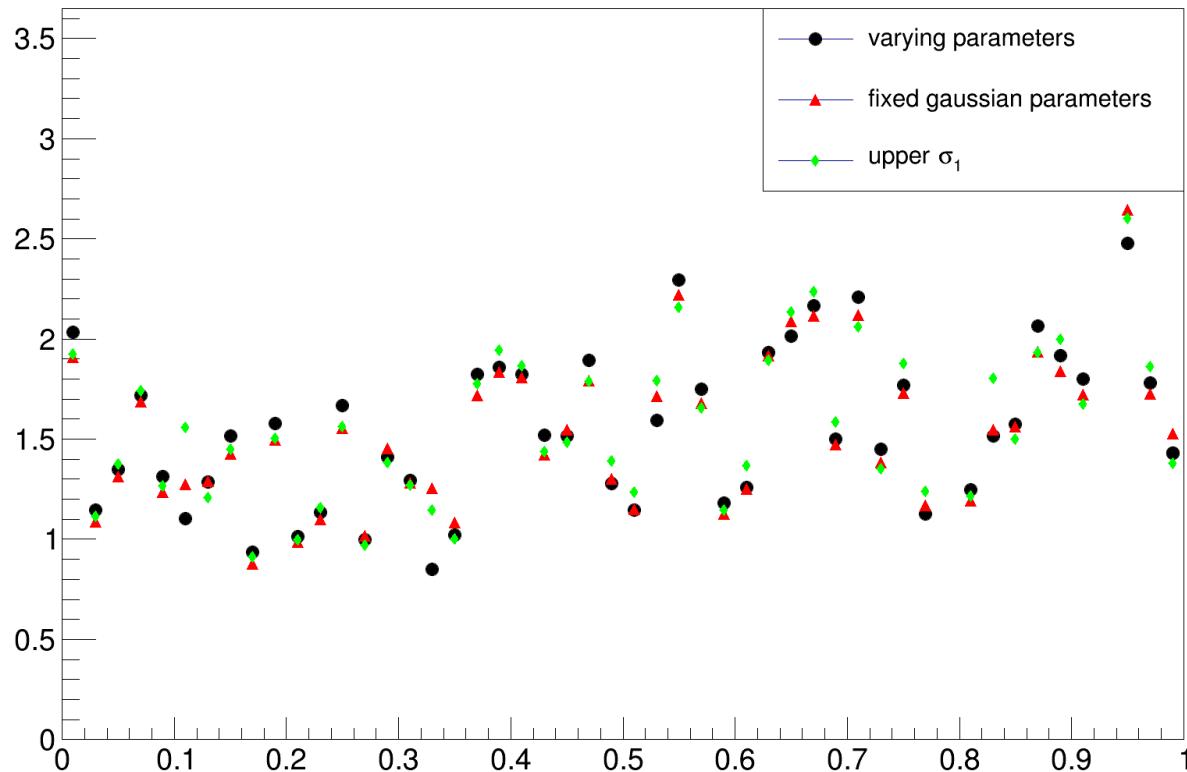
χ^2/NDF vs. θ



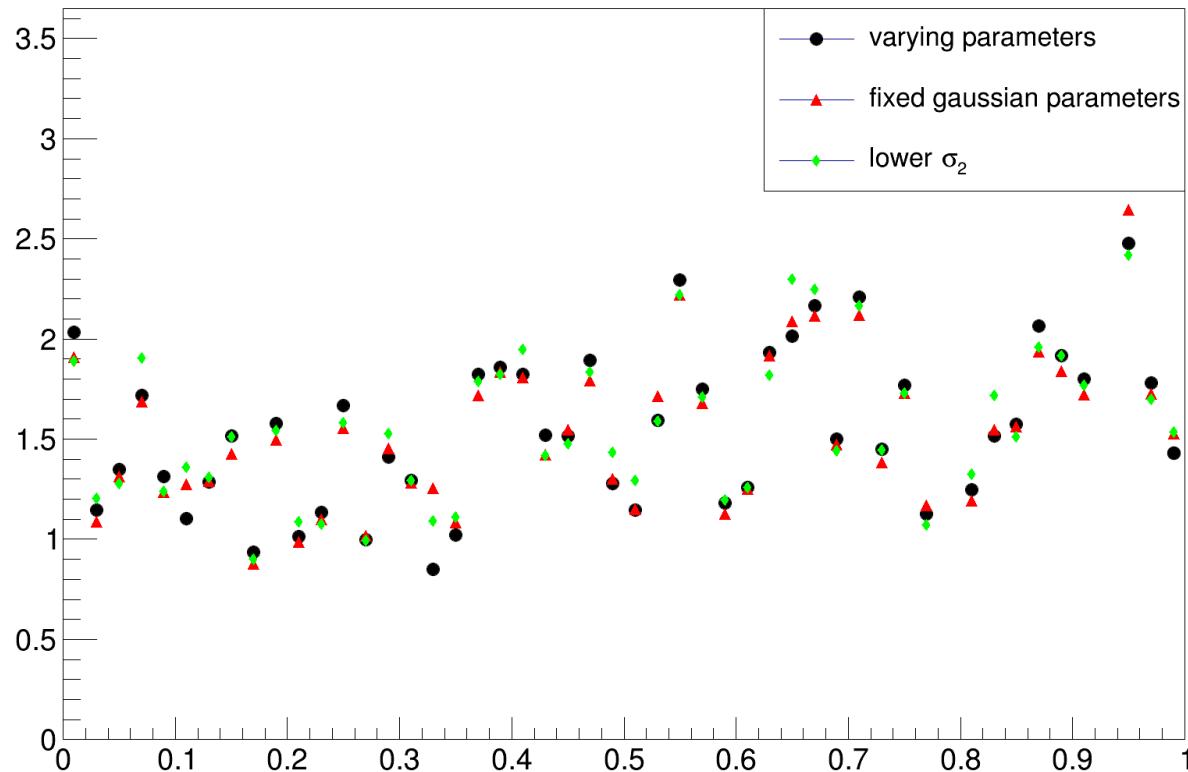
χ^2/NDF vs. θ



χ^2/NDF vs. θ



χ^2/NDF vs. θ



χ^2/NDF vs. θ

