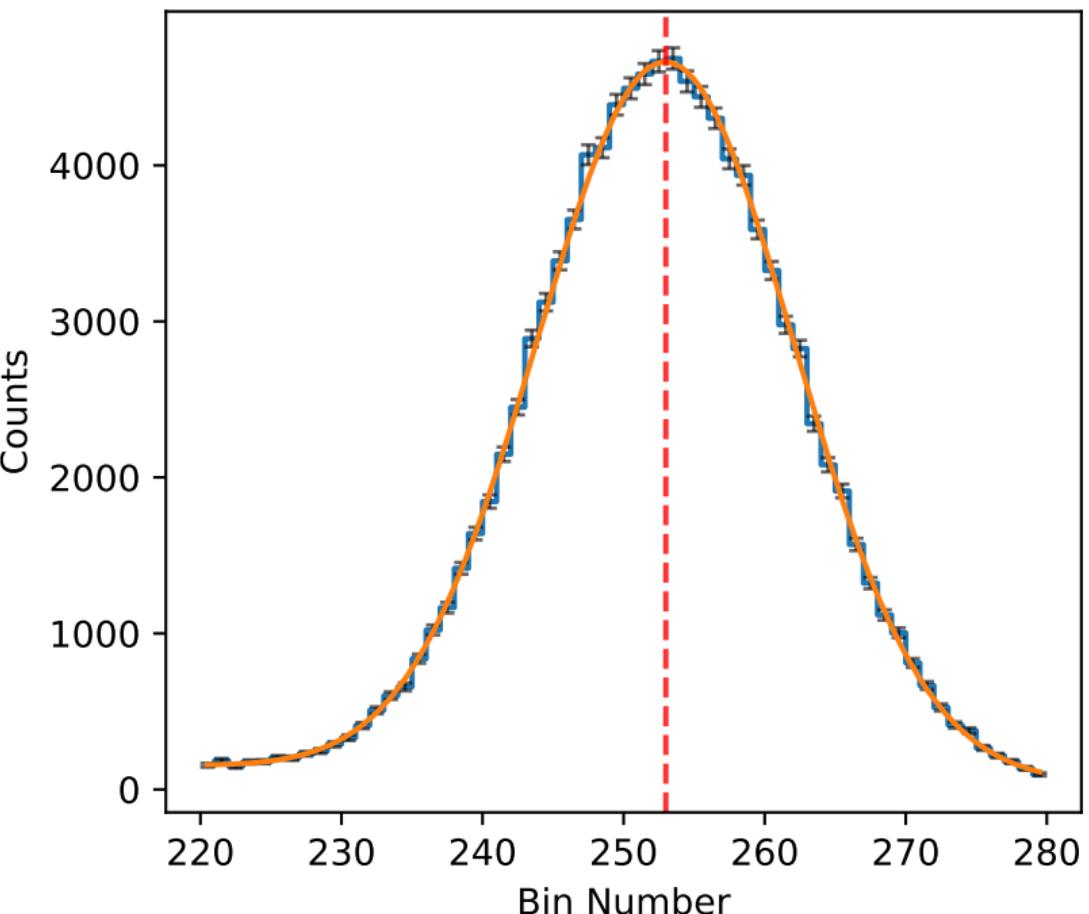


^{137}Cs Spectrum: Counts vs Bin Number

MLE Model
Peak (0.662 MeV) centroid, $A_4 = 252.99 \pm 0.03$
Poisson uncertainties

$$R(n) = |A_1 + A_2(n - A_4)| + |A_3| \exp\left[-0.5 \frac{(n - A_4)^2}{A_5^2}\right]$$

$$R(n) = |-92.1 + 1.78(n - 252.99)| + |4.57e + 03| \exp\left[-0.5 \frac{(n - 252.99)^2}{9.11^2}\right]$$



^{137}Cs Spectrum: Normalized residuals

