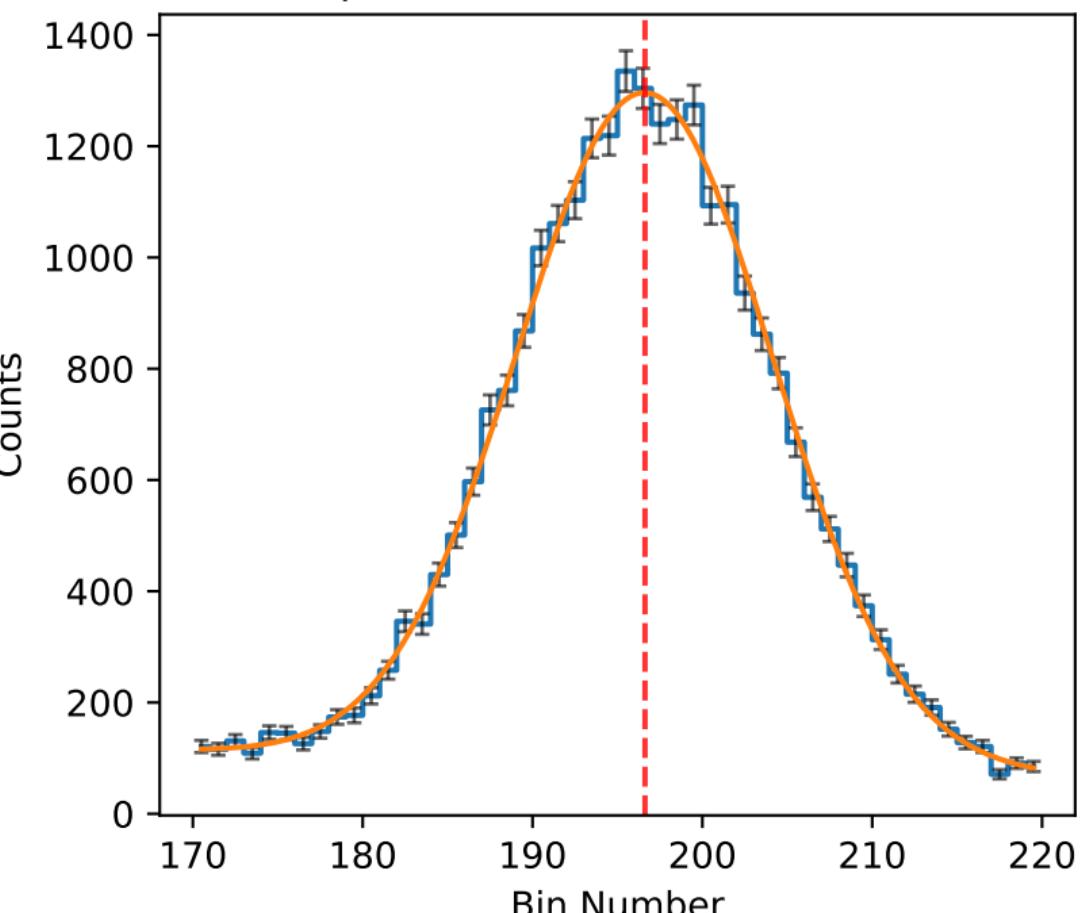


^{22}Na Spectrum: Counts vs Bin Number

MLE Model
Peak (0.511 MeV) centroid, $A_4 = 196.62 \pm 0.07$
Poisson uncertainties

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

$$R(n) = |90.2 + -0.879(n - 196.62)| + |1.21e + 03| \exp\left[-0.5 \frac{(n - 196.62)^2}{7.56^2}\right]$$



^{22}Na Spectrum: Normalized residuals

