^{60}Co Spectrum: Counts vs Bin Number

^{60}Co Spectrum: Normalized residuals

Legend:
- MLE Model
- Peak 1 (1.17 MeV) centroid, A4 = 441.6±0.4
- Peak 2 (1.33 MeV) centroid, A7 = 500.9±0.5
- Poisson uncertainties
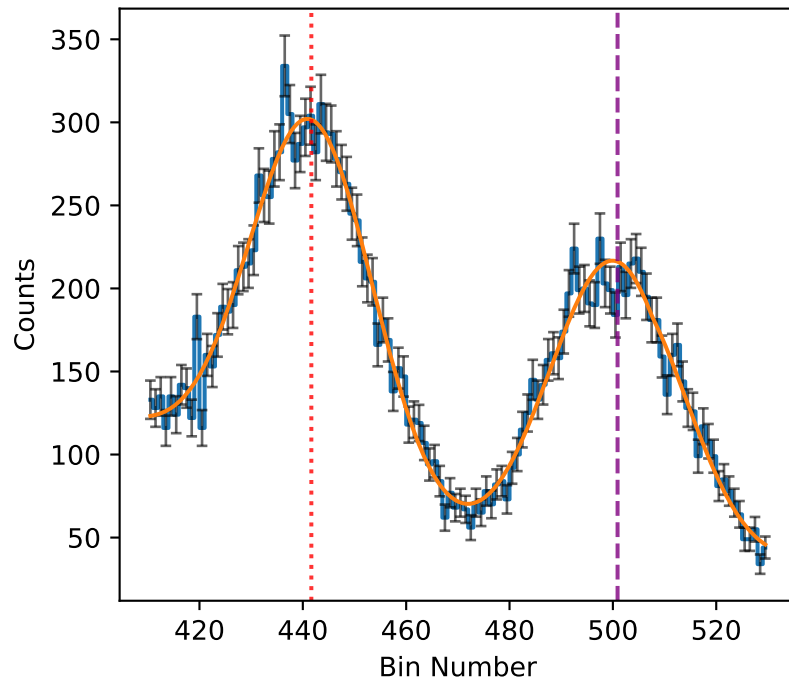
$$R(n) = |A_1 + A_2(n - A_4)|$$
$$+ |A_3|\exp\left[-0.5\frac{(n - A_4)^2}{A_5^2}\right]$$
$$+ |A_6|\exp\left[-0.5\frac{(n - A_7)^2}{A_8^2}\right]$$

$$R(n) = |78.5 + -1.19(n - 441.65)|$$
$$+ |223|\exp\left[-0.5\frac{(n - 441.65)^2}{12^2}\right]$$
$$+ |208|\exp\left[-0.5\frac{(n - 500.91)^2}{13.2^2}\right]$$

Counts

Bin Number

Residuals (sigma units)

Bin number