Average = 25 ions / extraction

\[ \sigma = \sqrt{25} \]

\[ I_{\text{extraction}} = 25 \pm 3\sigma = 25 \pm 15 \]

For analog ion counting, must convolve pulse distribution

\[ \sigma = \sqrt{25} \cdot 1.2 \]

\[ I_{\text{extraction}} = 25 \pm 3\sigma = 25 \pm 18 \]