Flux Uncertainty

• Ends of straight have large angular spread
• Straights are relatively short
• RMS beam size will be larger than \(0.1/\gamma\). Best we have is \(0.34/\gamma\)
• Try to find real uncertainty
  ◆ Take graph from physics study
  ◆ Fit to model
    ◆ Convolved Gaussians for beam and decays
    ◆ Flux at center

\[
\sigma_0 \approx \frac{0.42}{\gamma}
\]

• Assume \(\sigma_x\) uncertainty of 15%
• Assume acceptance is at 2.5\(\sigma\)
Flux = 0.647 ± 0.028