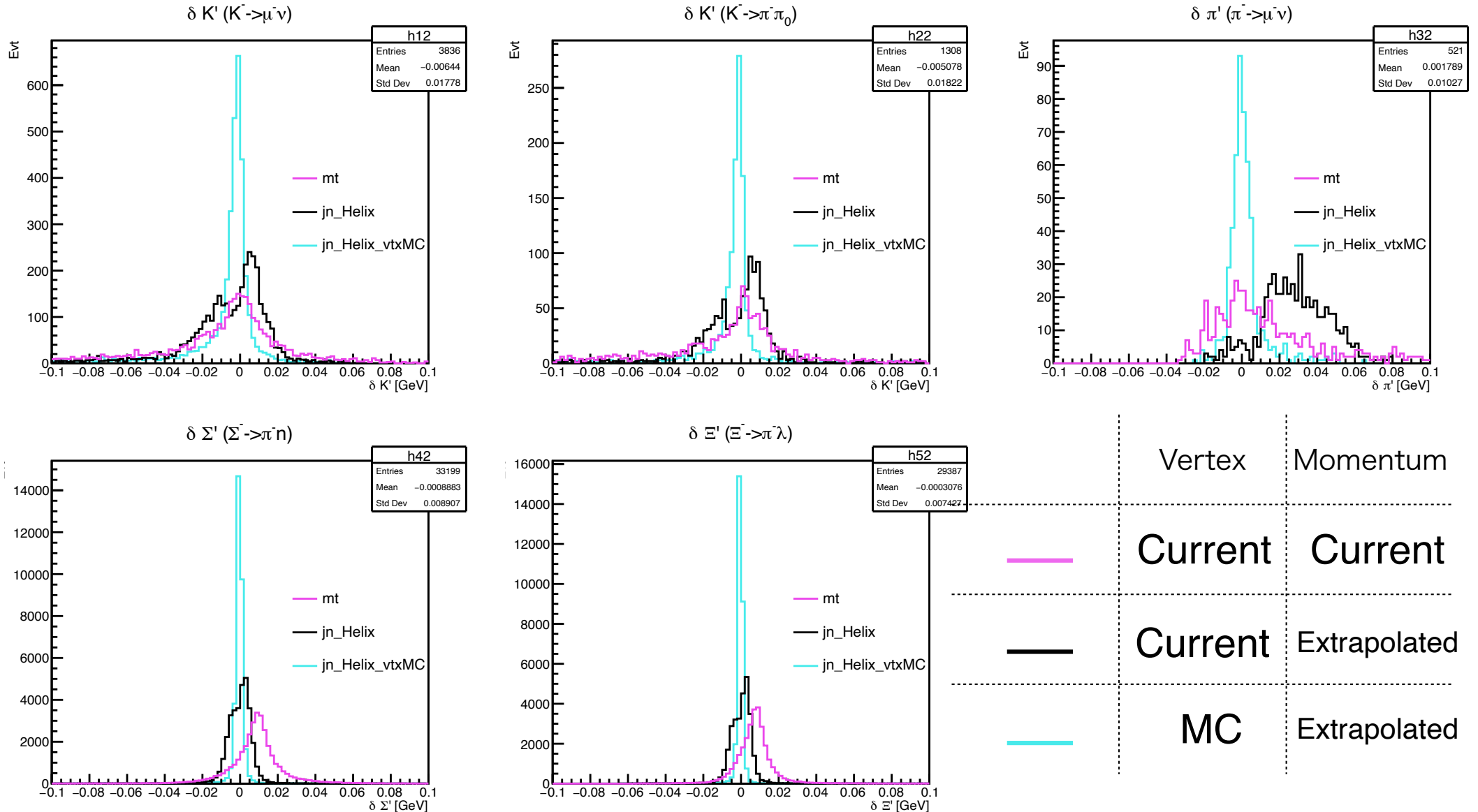


Comparison of δm distribution

$$\delta K' \equiv m_{\text{reco}K} - m_{\text{true}K}$$



New likely function

Mark Thomson's equation

$$\text{likely } K \equiv 3.125 \times \delta K \times \delta K + tK \quad \delta(K \rightarrow \pi\pi) \equiv \frac{|m_{\pi\pi} - m_K|}{K \text{ decay masscut (0.075 [GeV])}$$

likely $K \equiv \frac{1}{\sqrt{2\pi\sigma}} e^{-\frac{1}{2} \left(\frac{\delta K'}{\sigma} \right)^2} \times e^{-tK}$ Ignoring

$$\delta K' \equiv m_{\text{reco}K} - m_{\text{true}K}$$

I find σ from $\delta K'$, $\delta \pi'$, $\delta \Sigma'$ and $\delta \Xi'$ distribution.
I used "RMS90".

Distribution of new likely function

