

# Beam Energy Resolution Study

$K_L p \rightarrow K^+ \Xi$  events, vertex and 4-momentum kinematic fit, no constraint on  $\Xi$  mass.

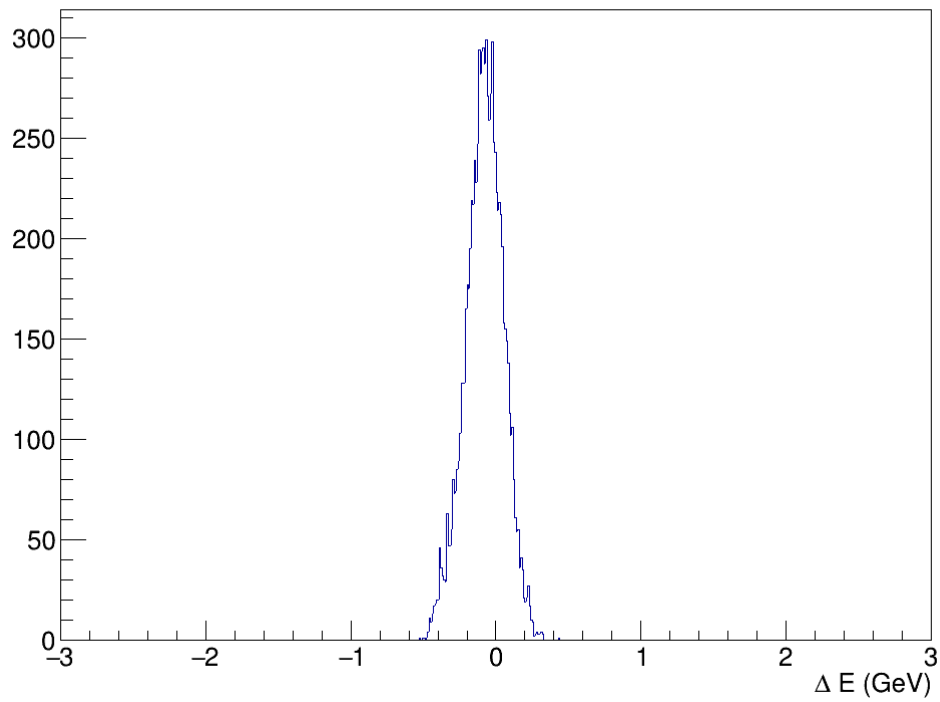


Figure 1: Beam Momenta  $p_{KLong} < 2.5 \text{ GeV}$

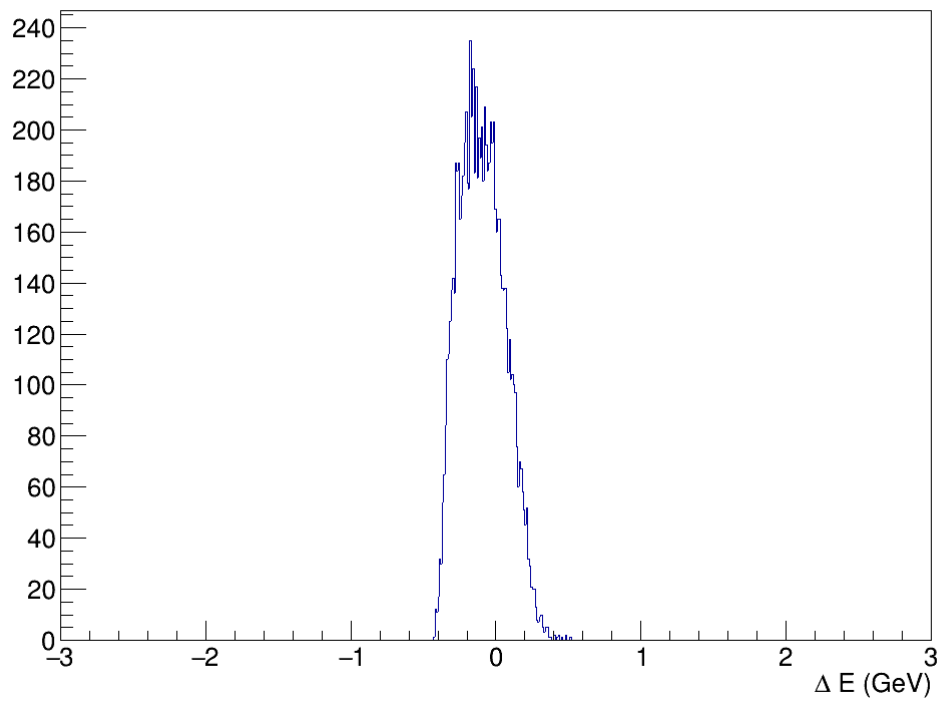


Figure 2: Beam Momenta  $2.5 < p_{KLong} < 3.0 \text{ GeV}$

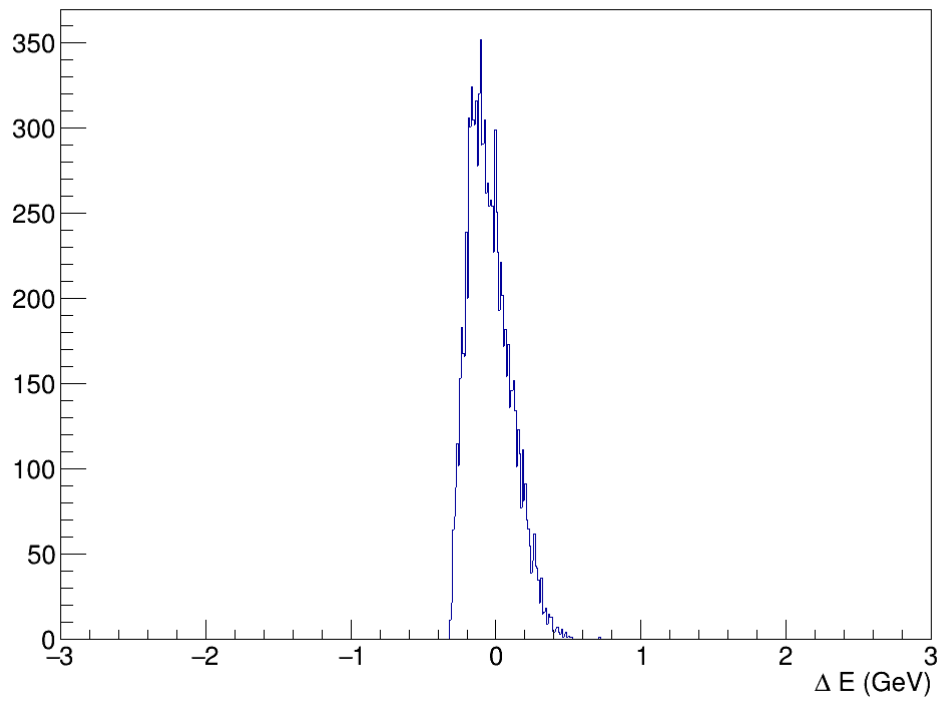


Figure 3: Beam Momenta  $3.0 < p_{KLong} < 3.75 GeV$

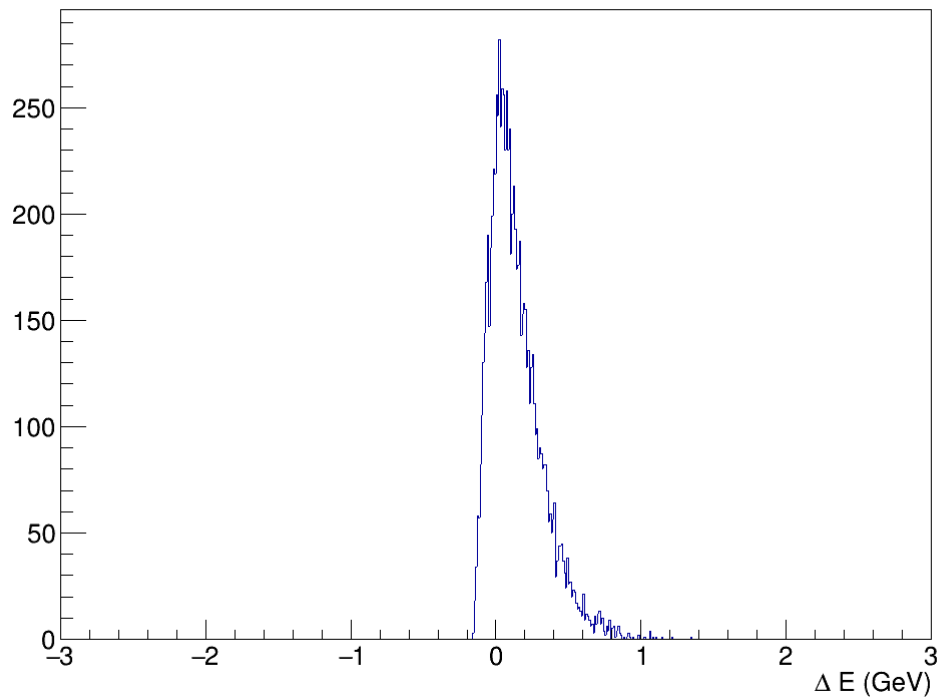


Figure 4: Beam Momenta  $p_{KLong} > 3.75 GeV$