

LHRS Pion Rejector Calibration

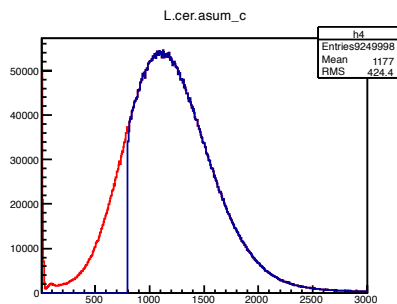
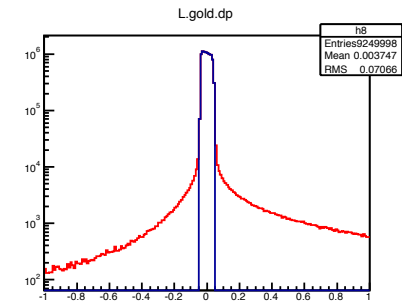
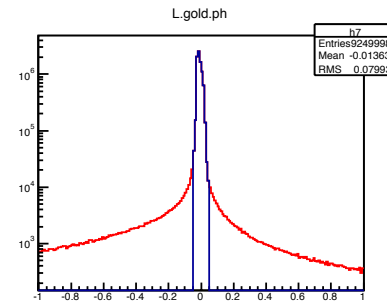
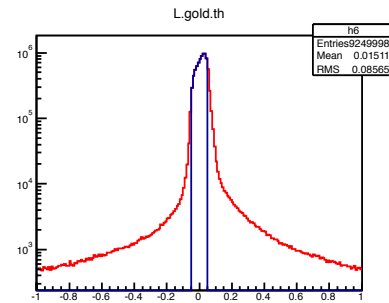
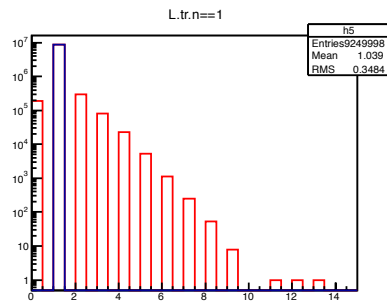
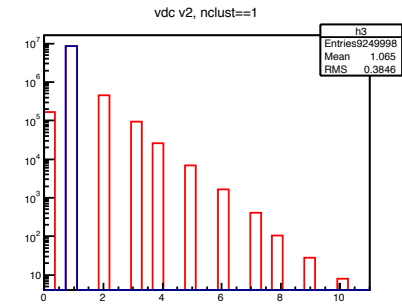
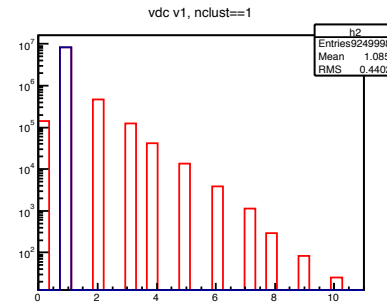
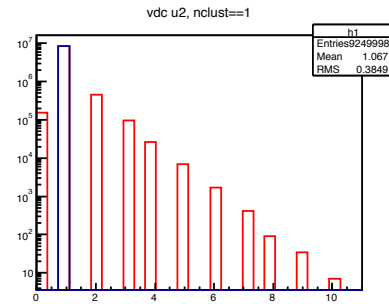
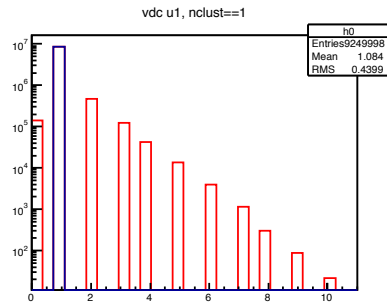
Melissa Cummings

10/09/12

Procedure

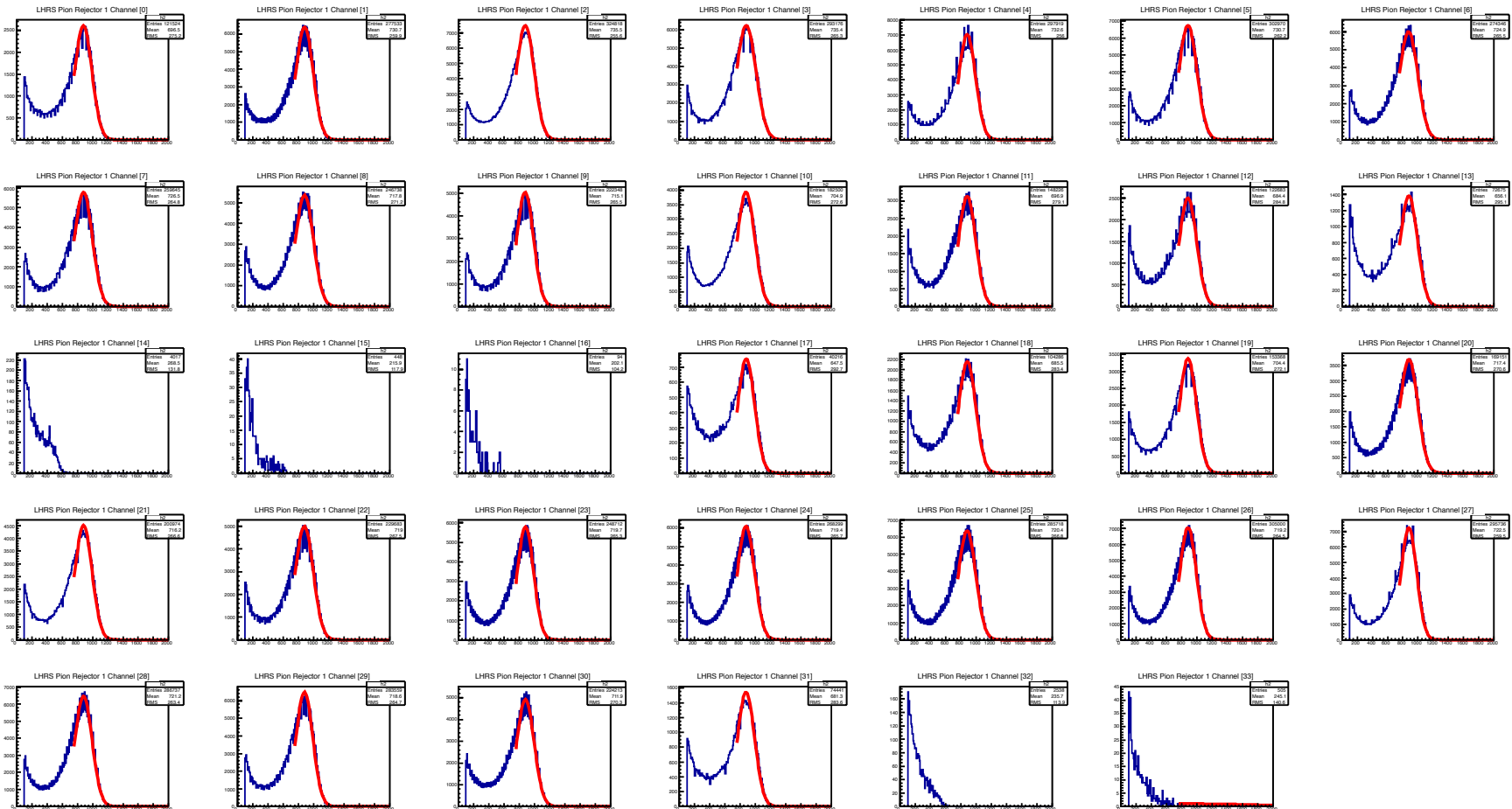
- Assume total energy deposition for low energy (1 GeV)
- Align individual blocks in each layer to a common channel
- Optimize calibration coefficients so that $E_{tot}/p = 1$

Electron Cuts



Layer 1

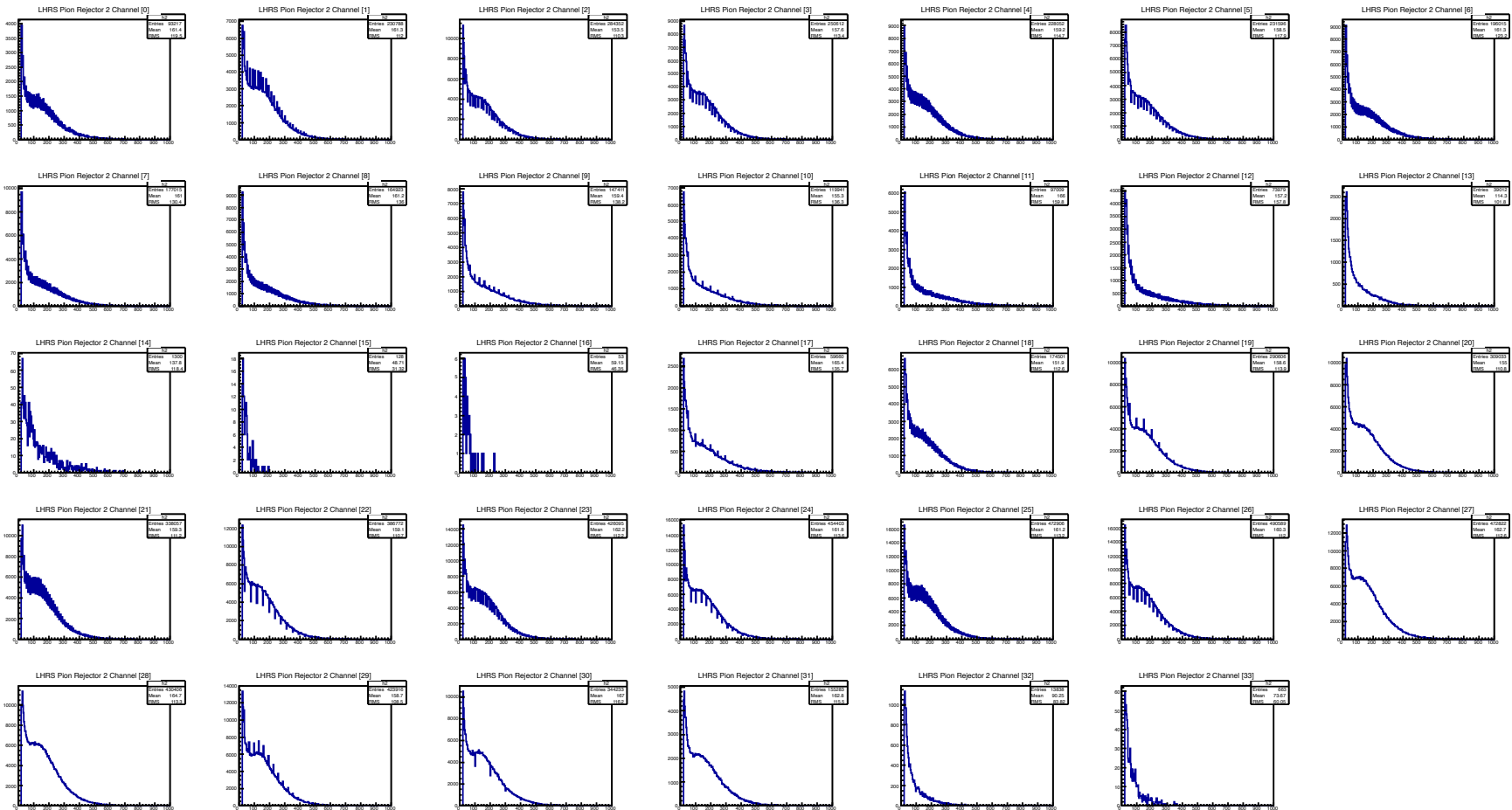
$E = 2.2 \text{ GeV}$, $p_0 = 1.078 \text{ GeV}$



run #3628

Layer 2

$E = 2.2 \text{ GeV}$, $p_0 = 1.078 \text{ GeV}$

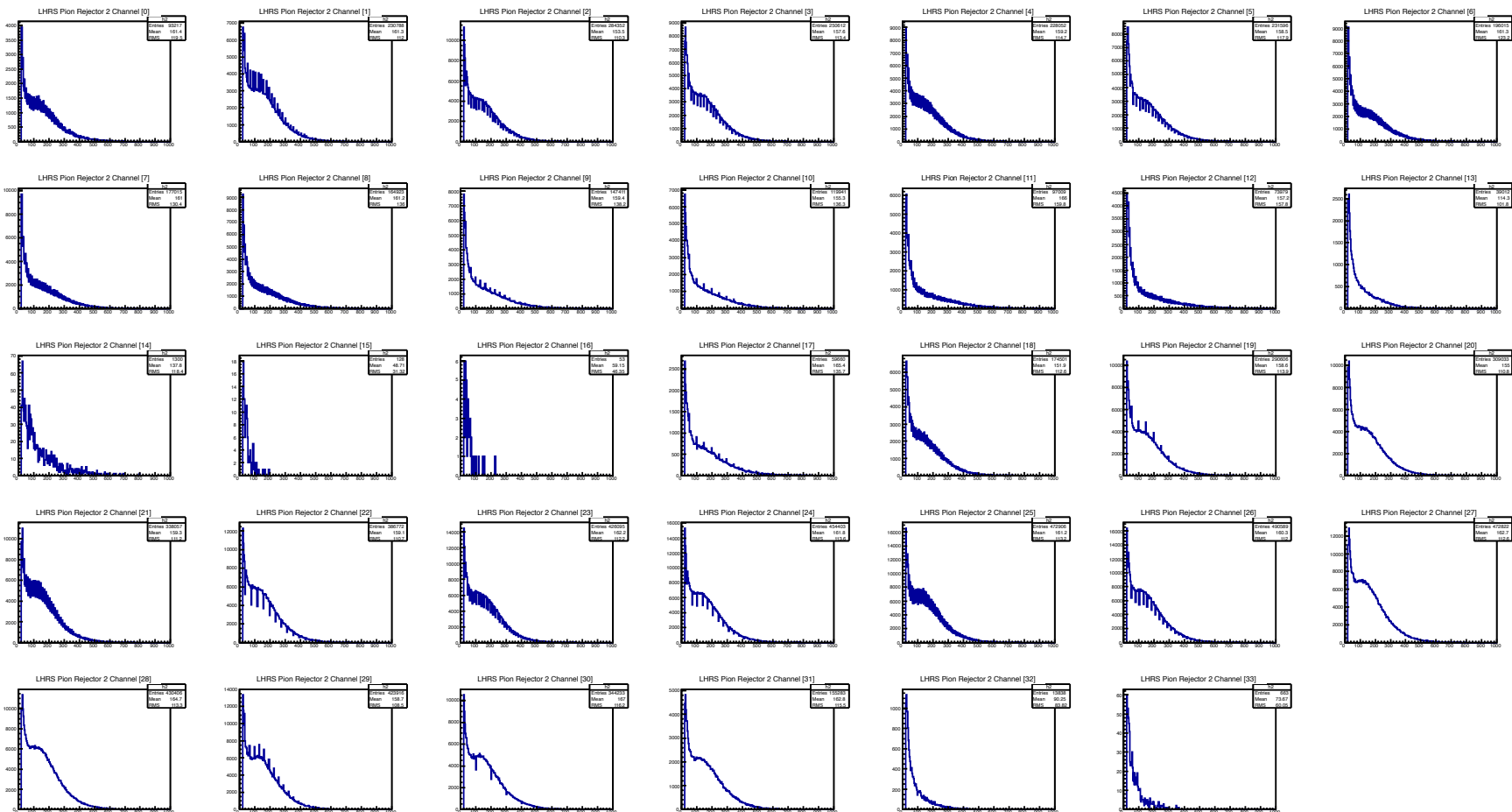


run #3628

Difficult to fit peaks...

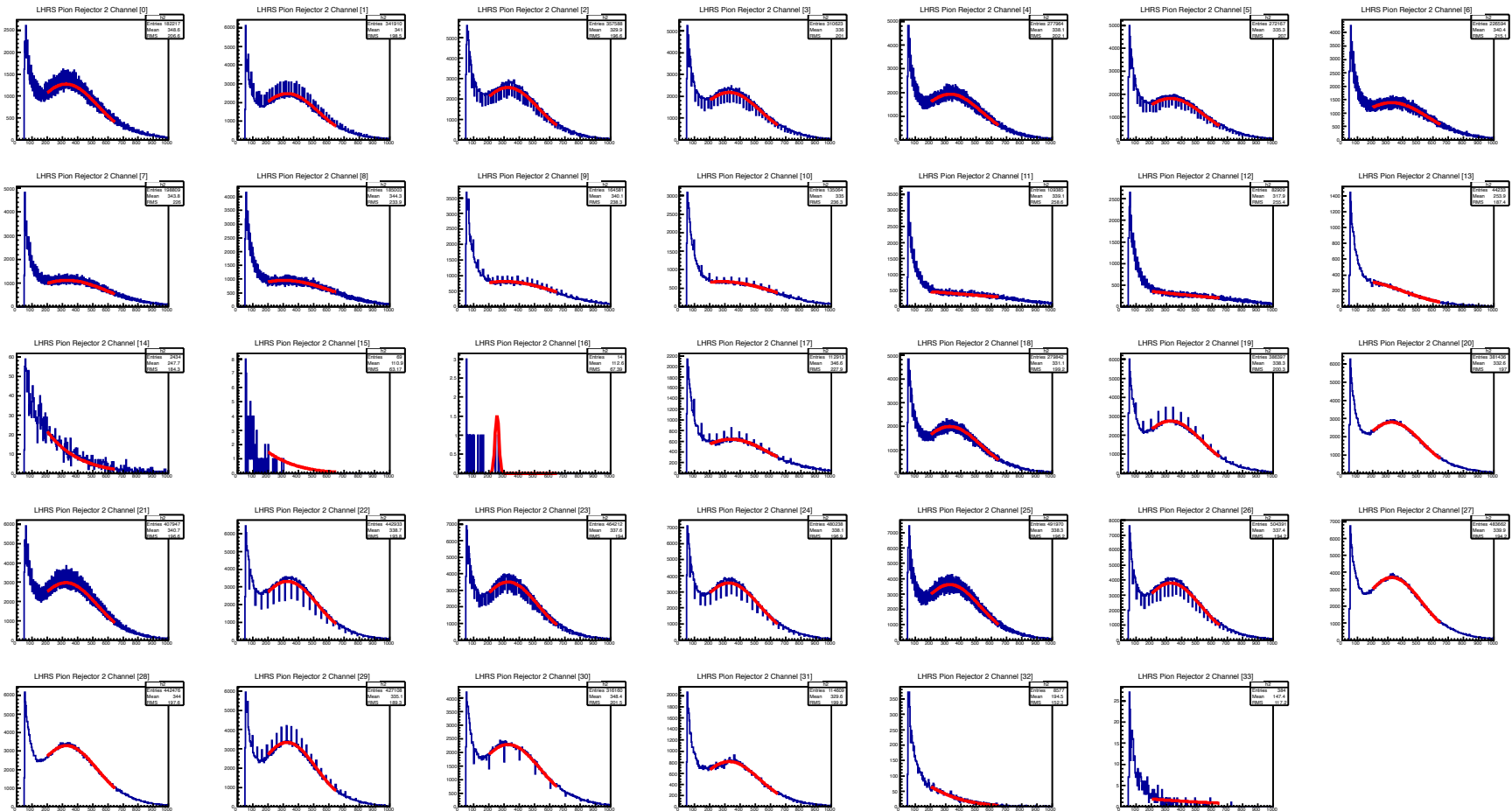
Layer 2

$E = 2.2 \text{ GeV}$, $p_0 = 1.078 \text{ GeV}$



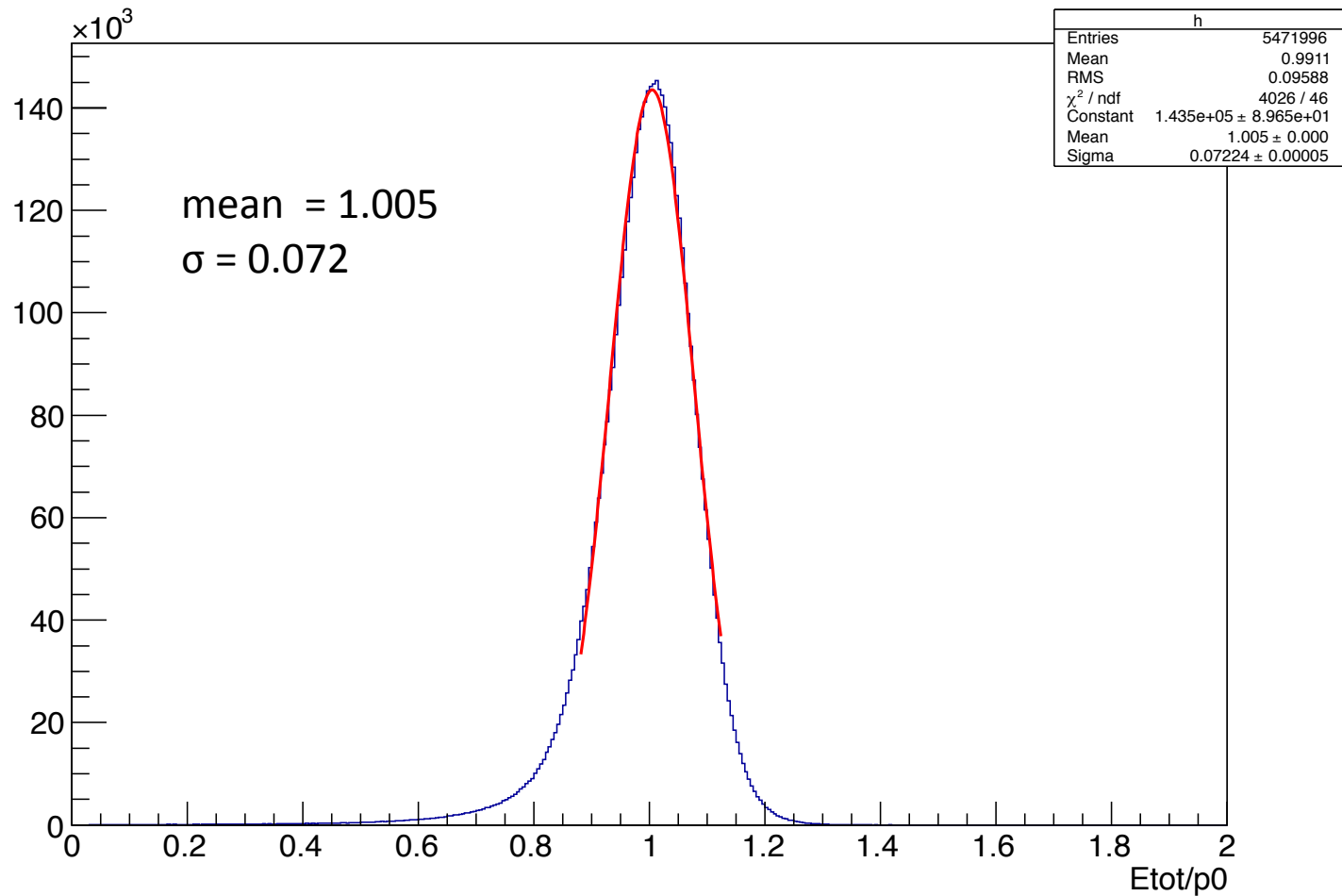
Layer 2

$E = 2.2 \text{ GeV}$, $p_0 = 1.792 \text{ GeV}$



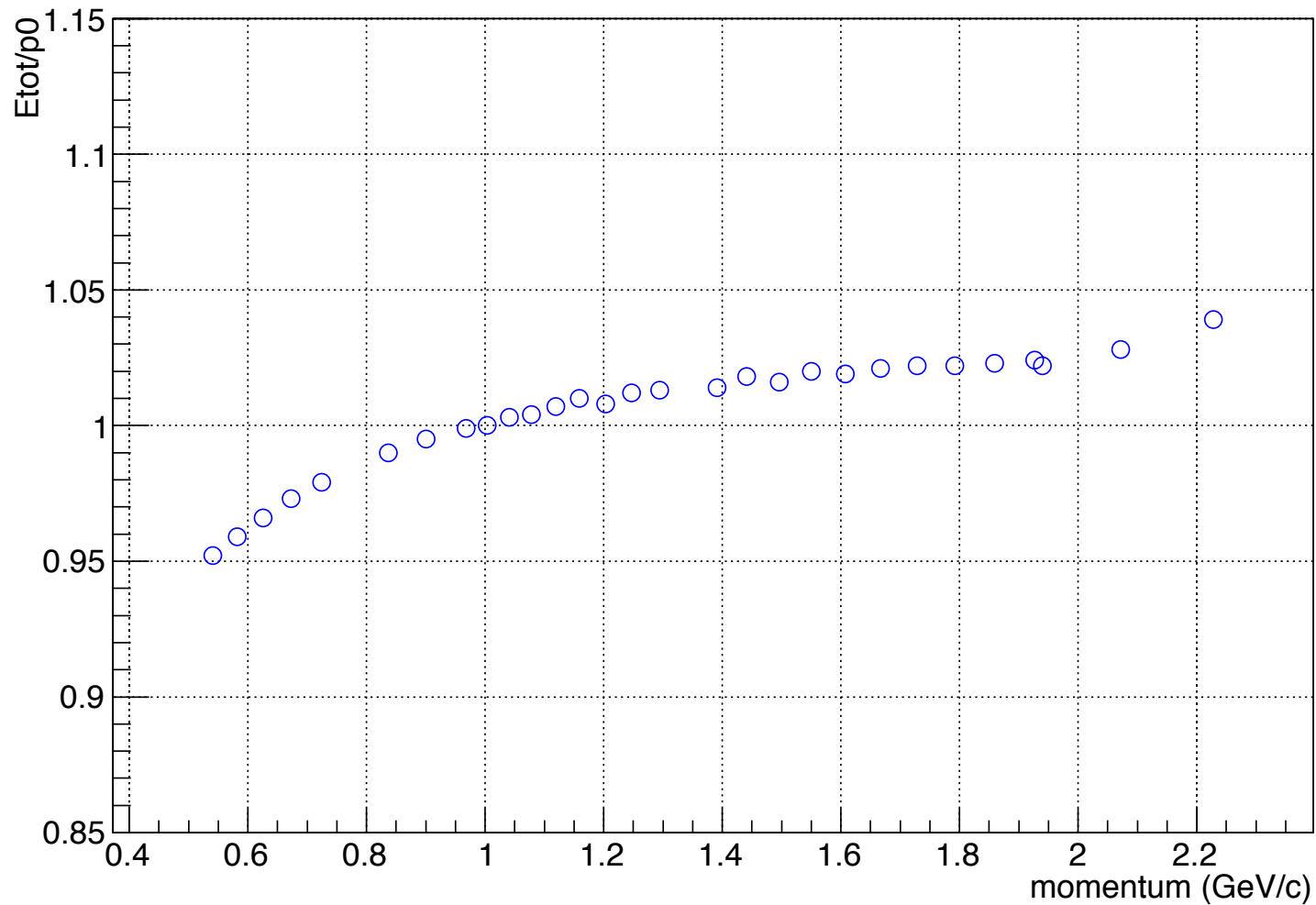
Etot/p0

Calibration Check for E = 2.2 GeV, p0 = 1.078 GeV



Stability of Calibration?

LHRS Pion Rejector Stability Check for 2.2 GeV



Resolution

LHRS Pion Rejector Resolution for 2.2 GeV

