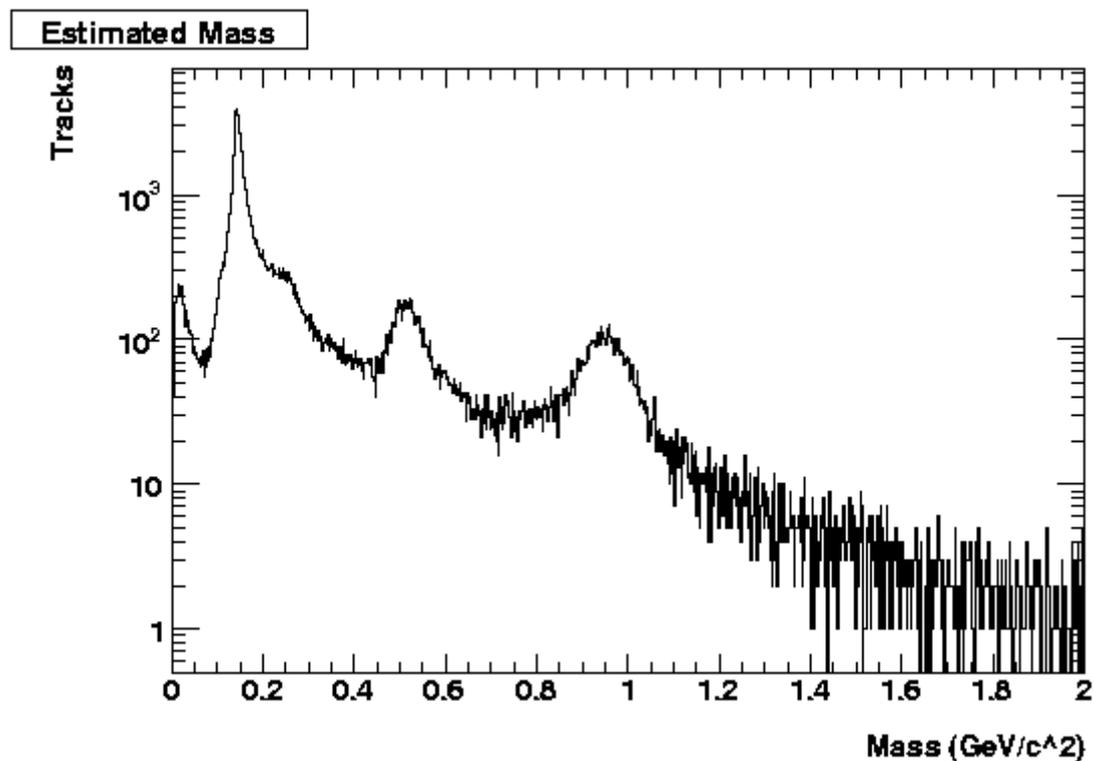


R0 Calibration With Pass4

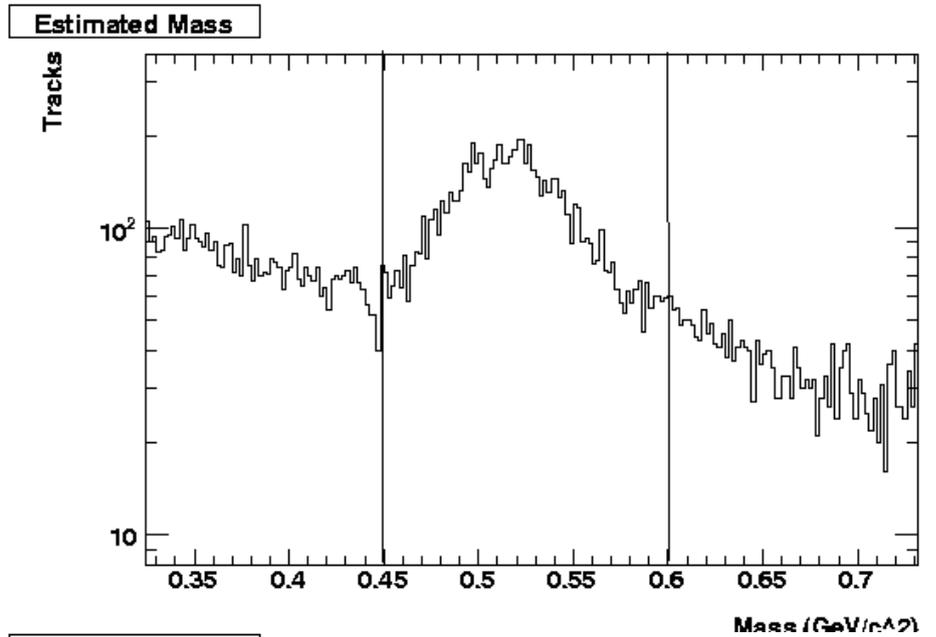
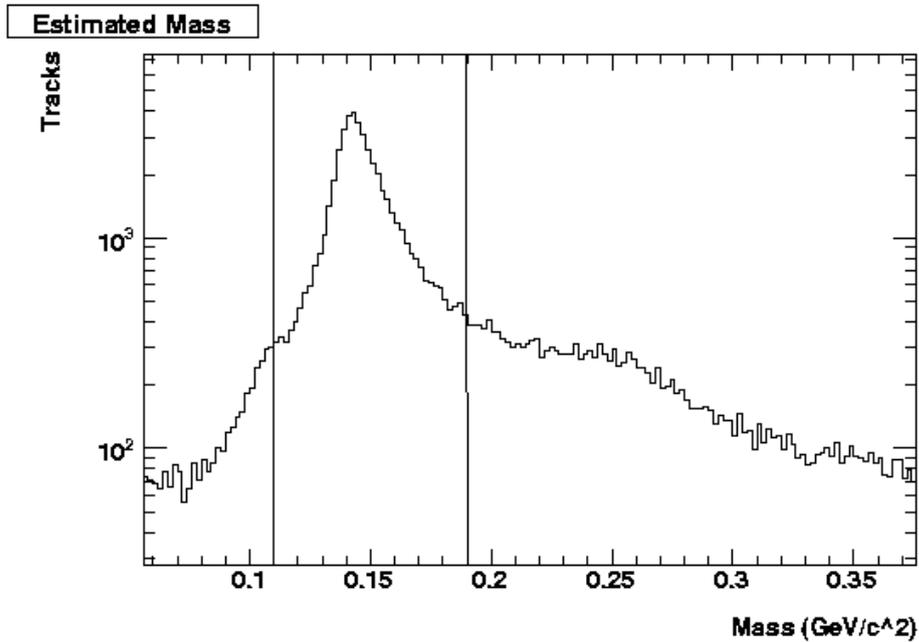
Nick Graf
April 19, 2007

Calibration With Pass4 Output

- R0 calibrated for each subrun using track momentum and result from RICHRadFit.
- Used runs from 12000-14000 and 15000-16000.
- Accept tracks with ring radius > 15 cm, including beam tracks.
- Assume $R0 = 30$ cm. and estimate mass using fitted track momentum.

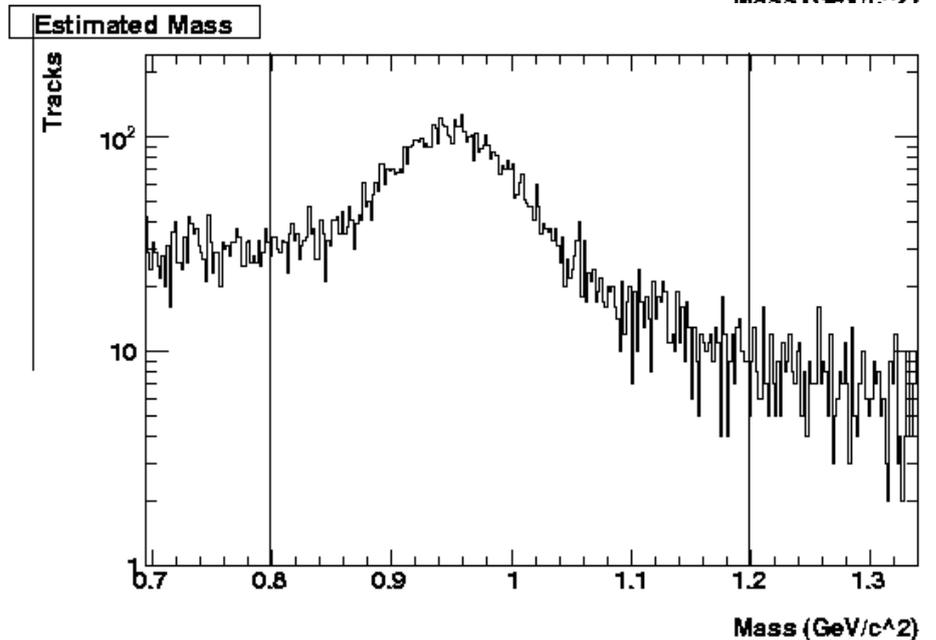


Cuts On Mass Peaks



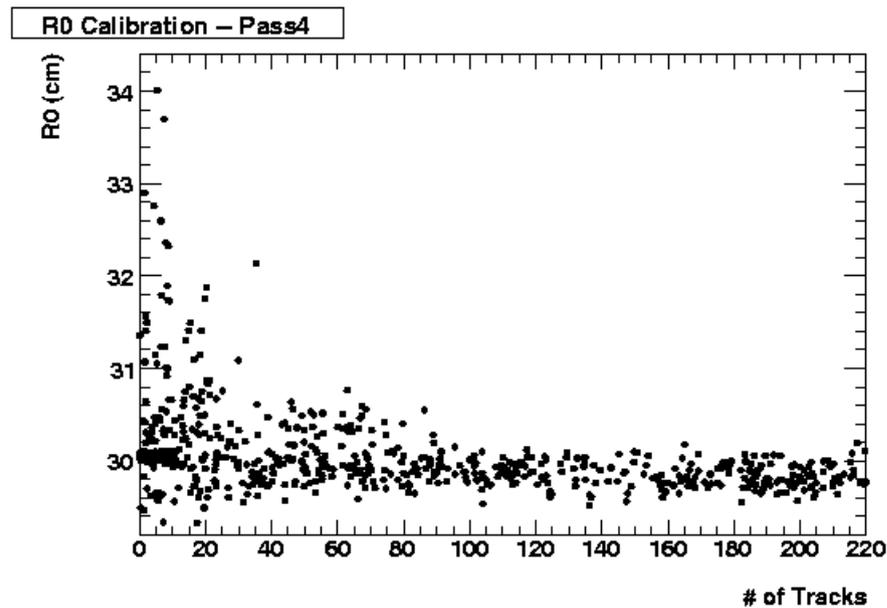
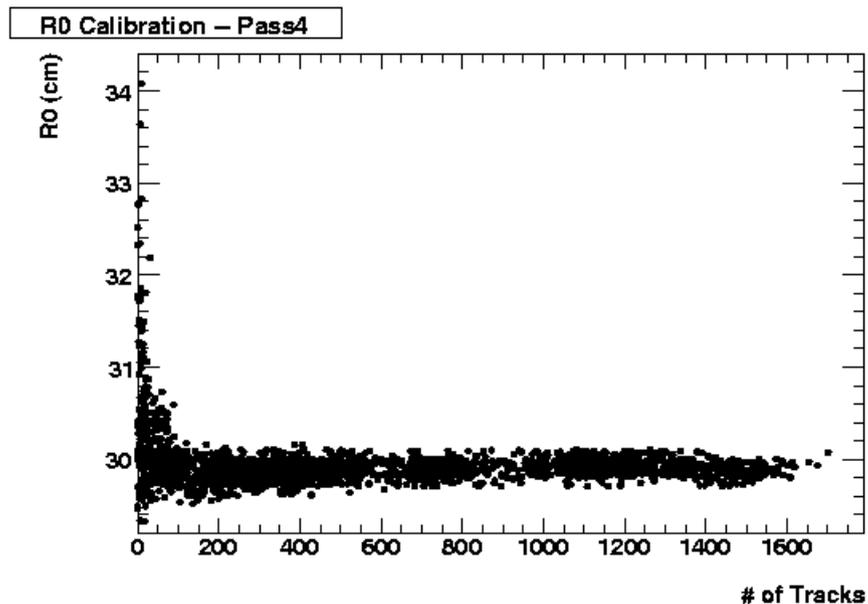
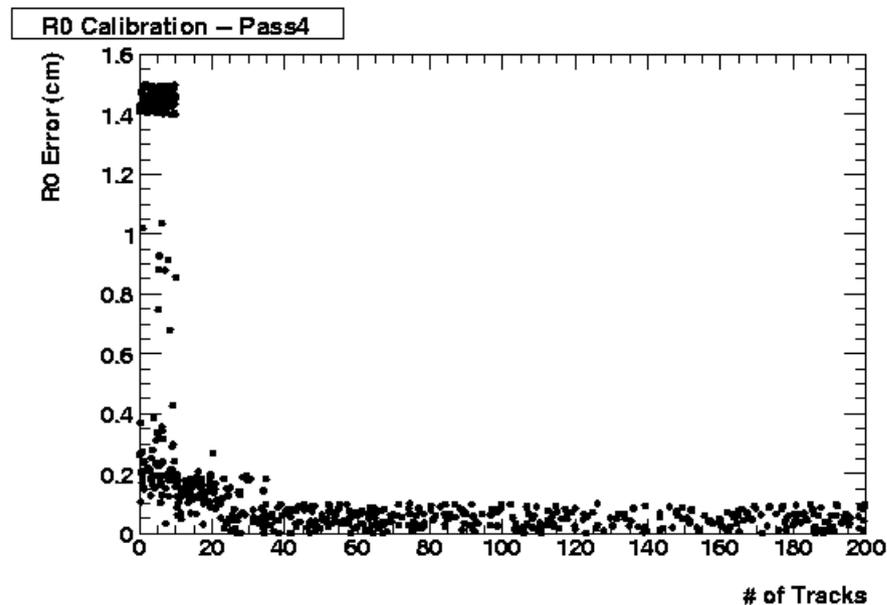
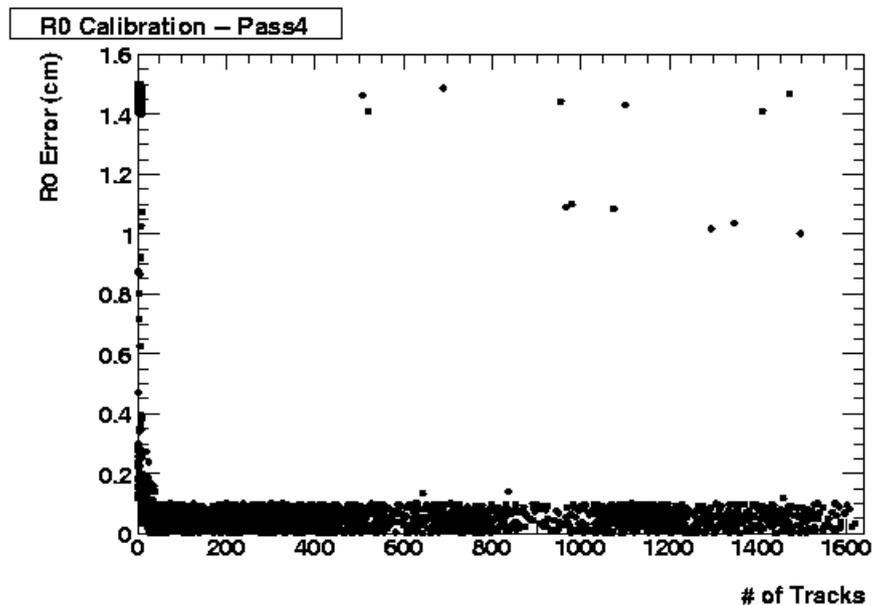
Pion Peak: $0.11 < m < 0.19$ (upper left)
Kaon Peak: $0.45 < m < 0.6$ (upper right)
Proton Peak: $0.8 < m < 1.2$ (lower right)

Use cuts to determine for which curve points points should be fit.

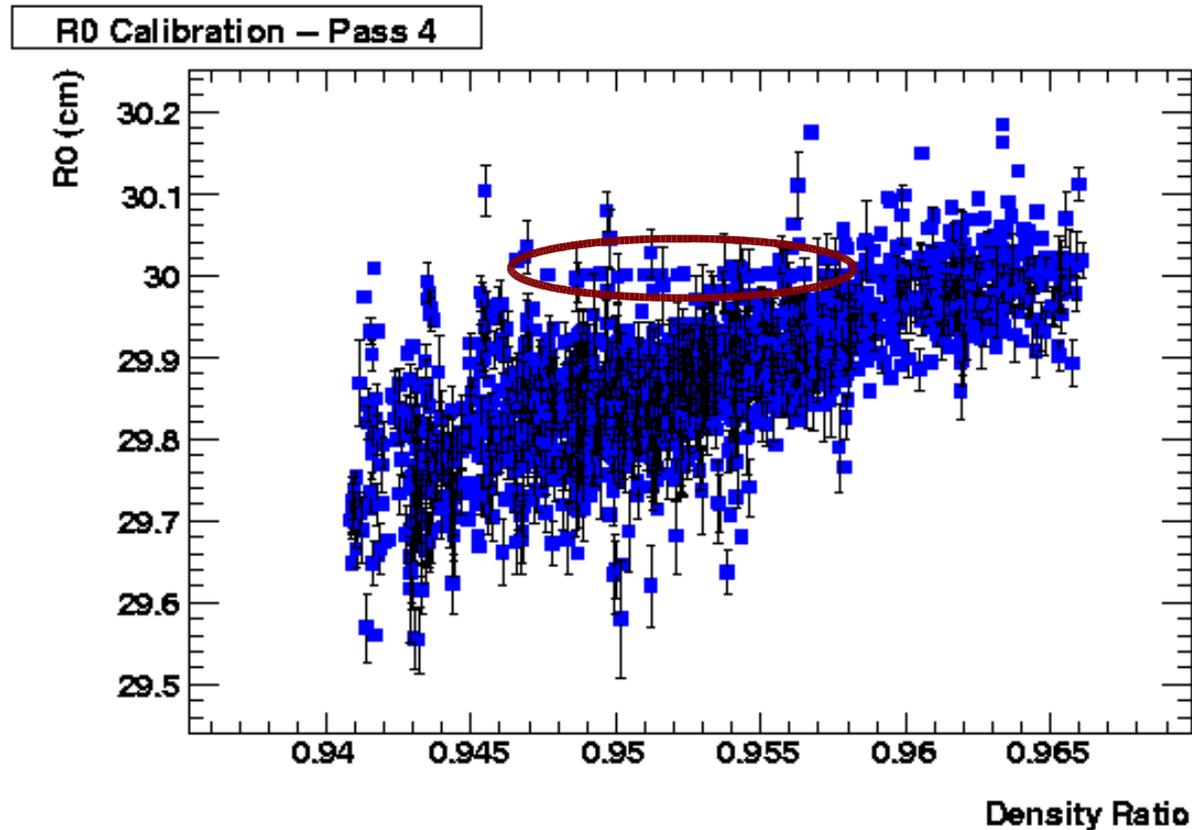


How Many Tracks For Reliable Fit?

Keep results from fits with > 100 tracks.



R0 Vs. Density



R0 increases with density, as expected.

Some results clustered very close to 30 cm, within about 0.0002 cm.

To Do: Parameterize R0 in terms of slow control values and fit.