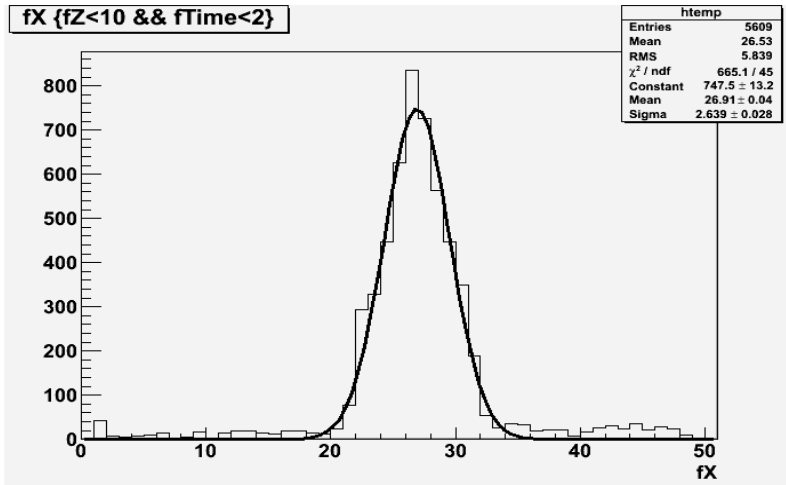


Tracks reconstruction Large GRPCs

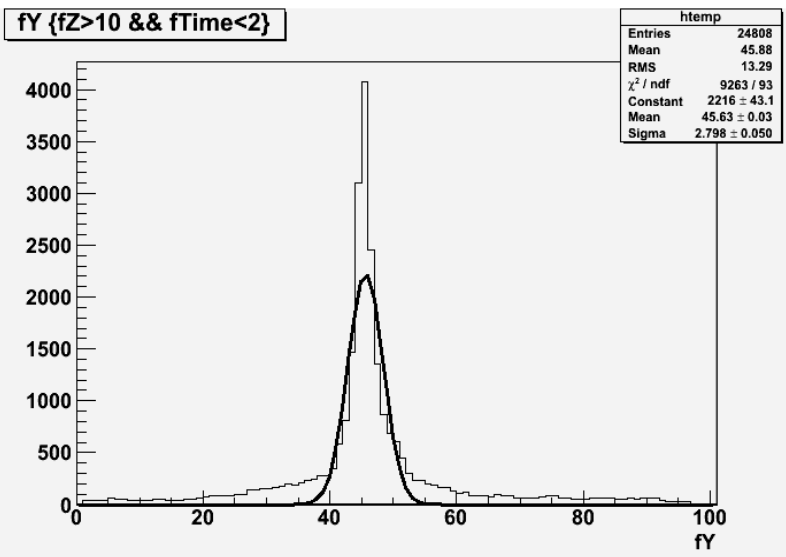
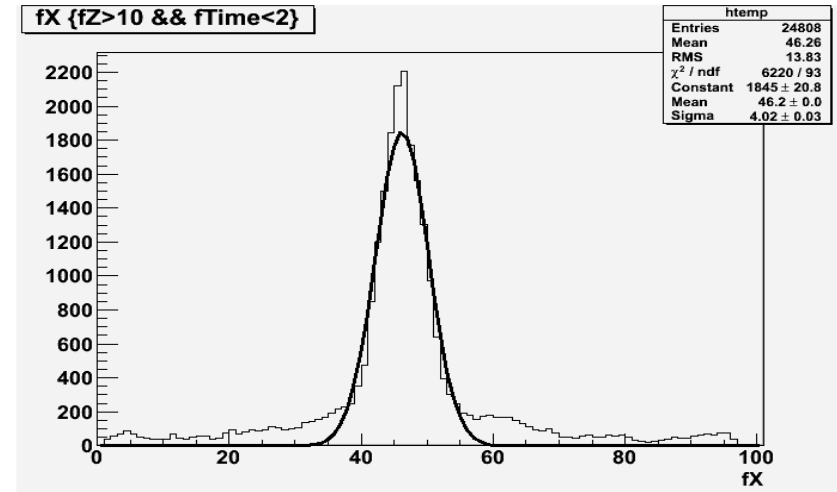
Procedure

- Select hits with: $t < 10 \text{ BC}$ → Fit with gaussian
→ Calculate X and Y shifts
- Select hits with $\Delta t < 400 \text{ ns}$ (2 BC) and
 $\Delta X, \Delta Y < 5 \text{ cm}$ → track candidate
- Project track to next chamber and confirm it if a hit is found with same time and space cuts

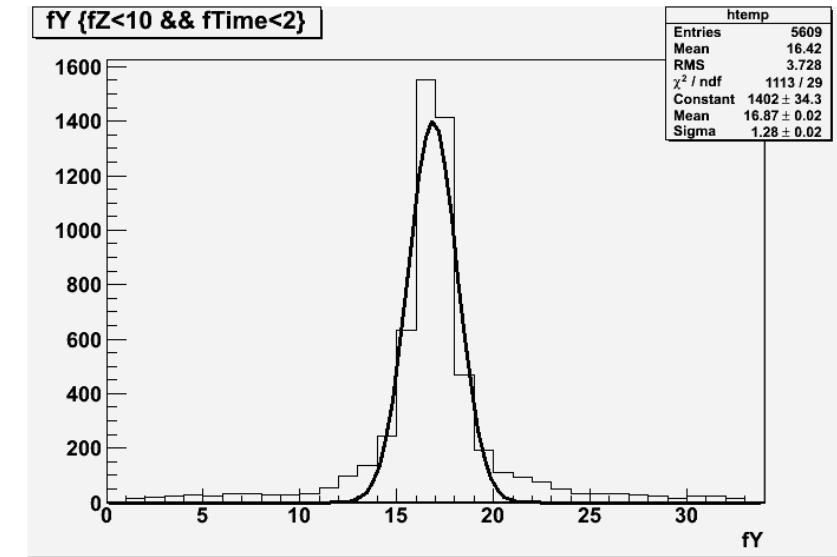
Alignment



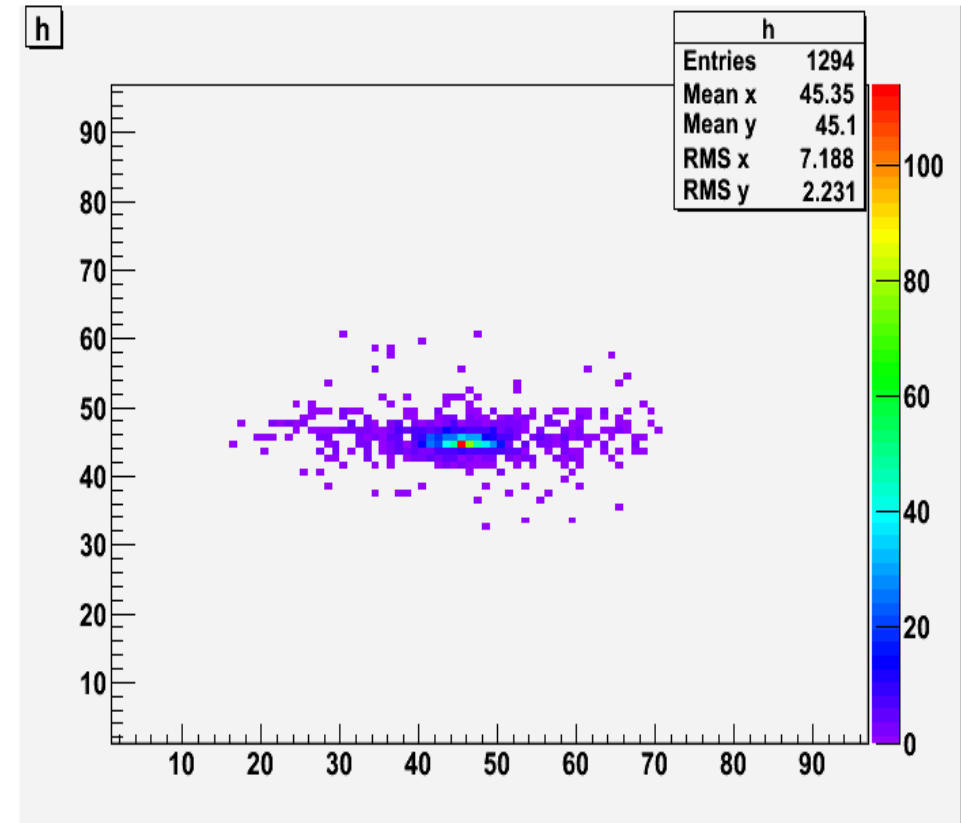
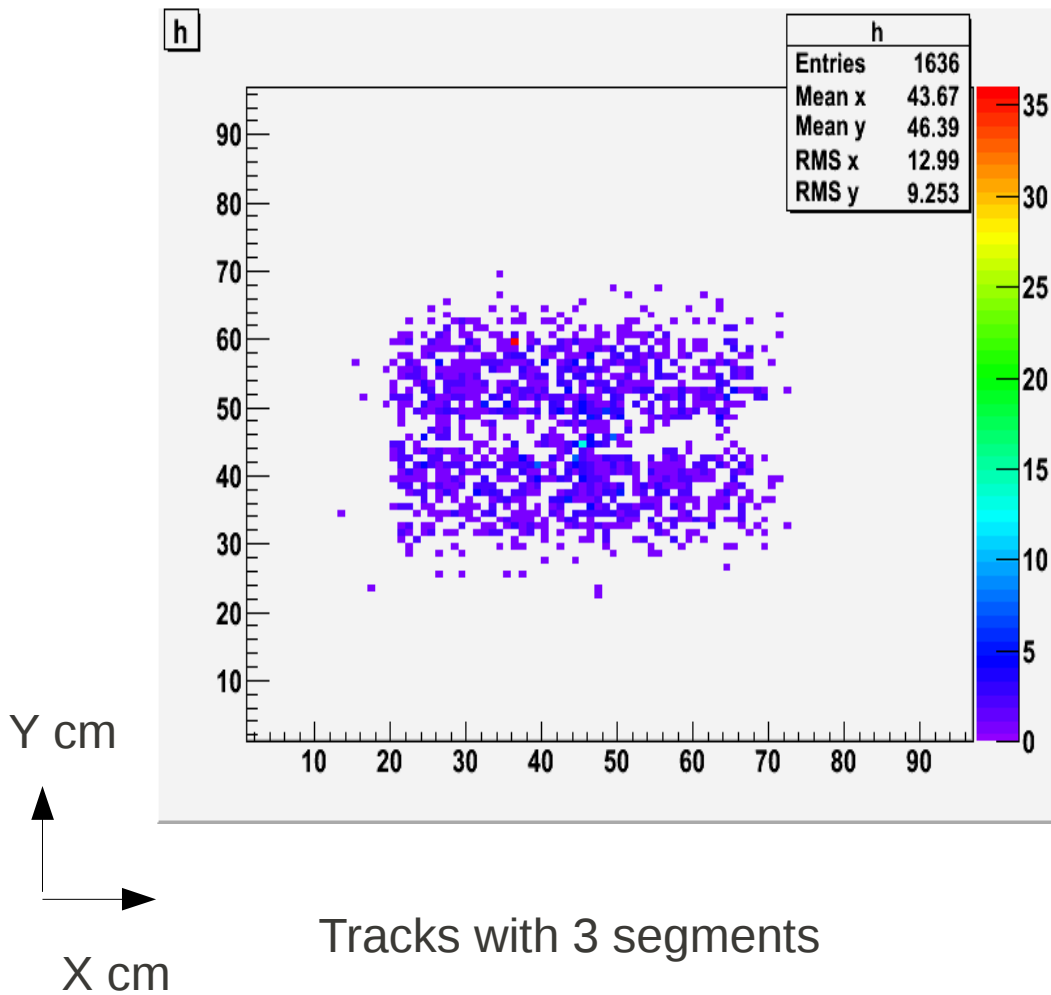
$$\Delta X = 46.2 - 26.9 \text{ cm}$$



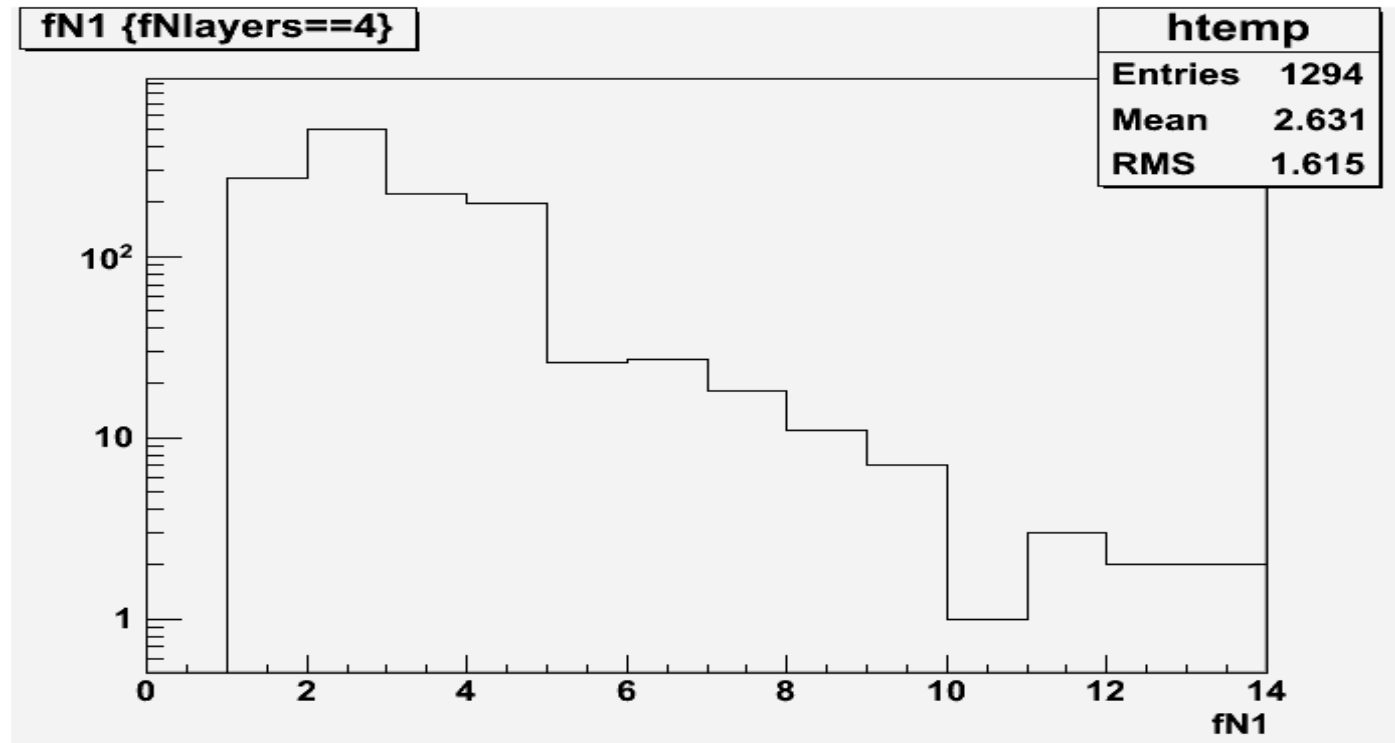
$$\Delta Y = 45.6 - 16.8 \text{ cm}$$



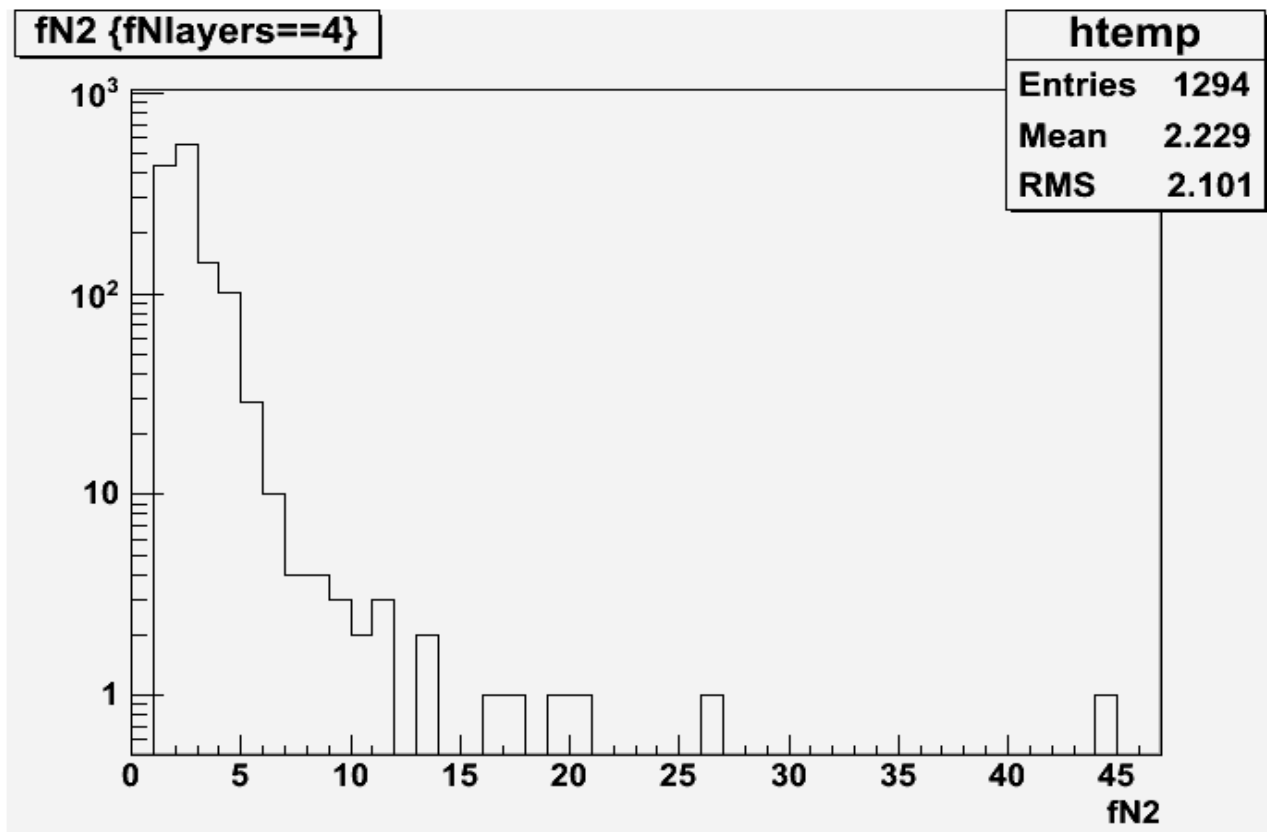
Reconstructed tracks



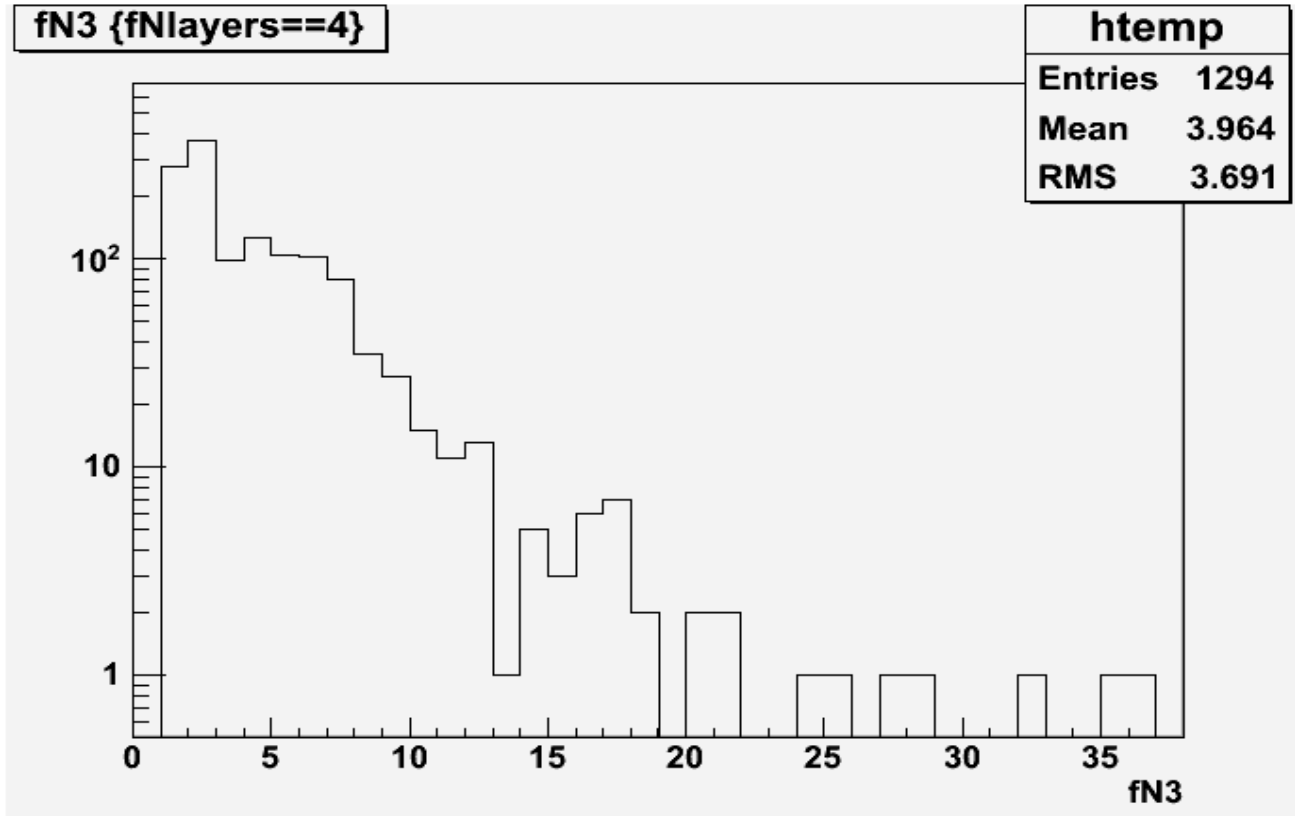
Multiplicity



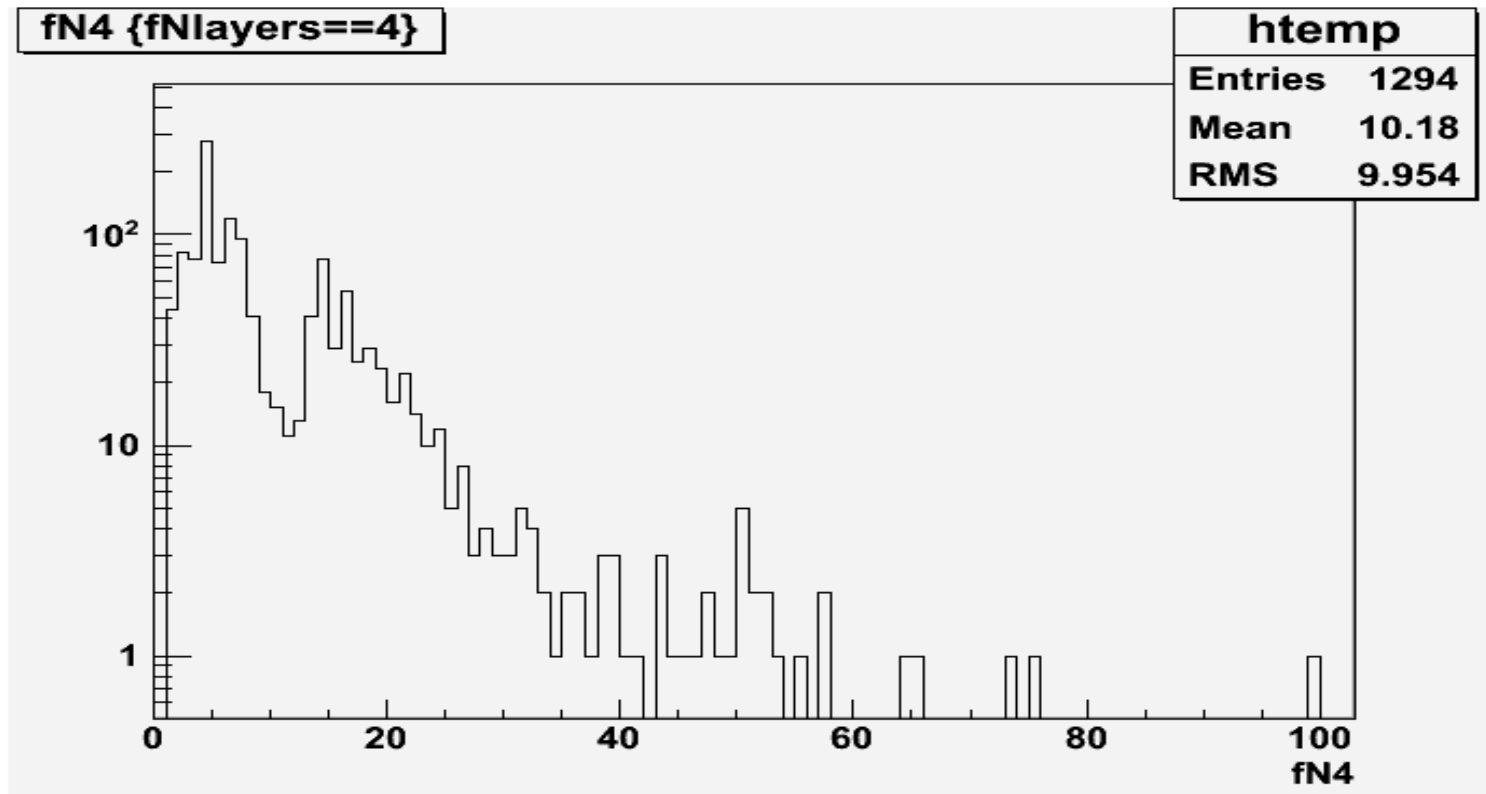
1st RPC (small)



2nd RPC (small)



3rd RPC (1m²)



4th RPC (1m²)