KNO Scaling Update

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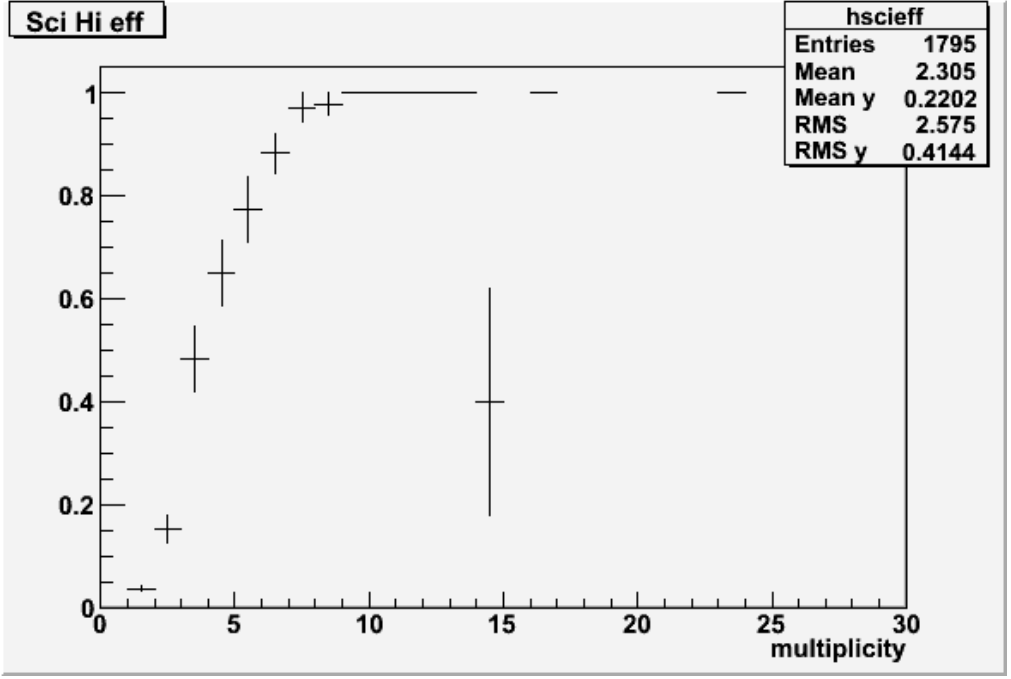
- 58 GeV/c p+LH2 data MC Reco and DATA multiplicity comparision
- SciHi efficiency from MC and DATA
- It is tried to cut un-interacted events when SciHi is triggered



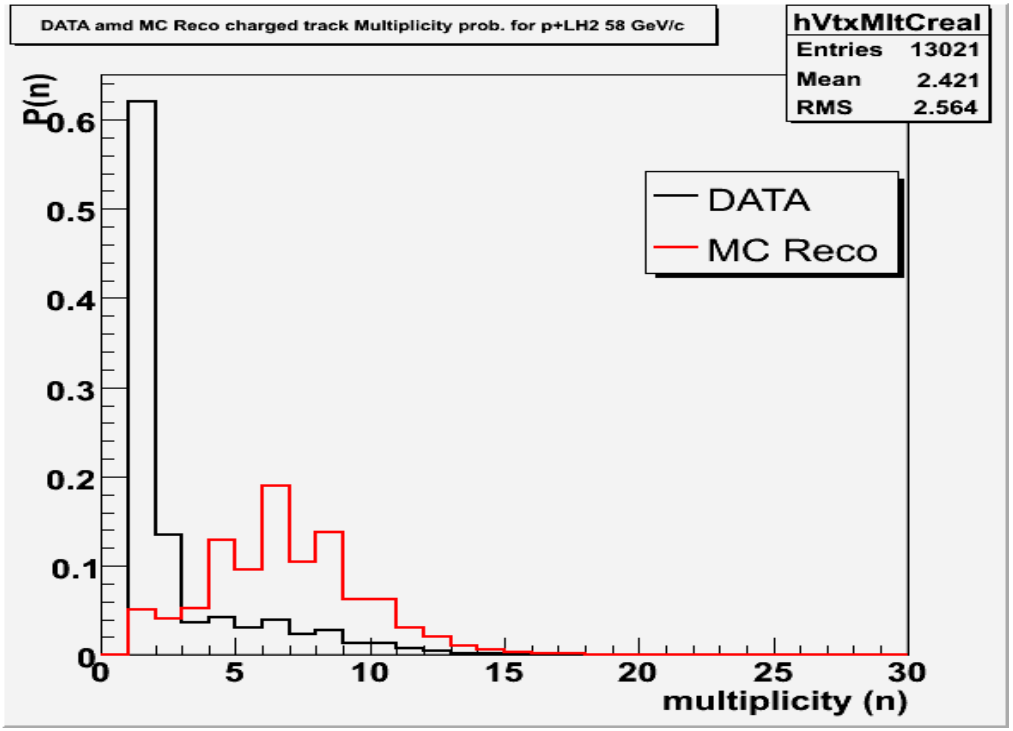
-SciHi efficiency from data

Beam trigered events were used

-5. < Zvtx – Ztgt <5.

r<1.5

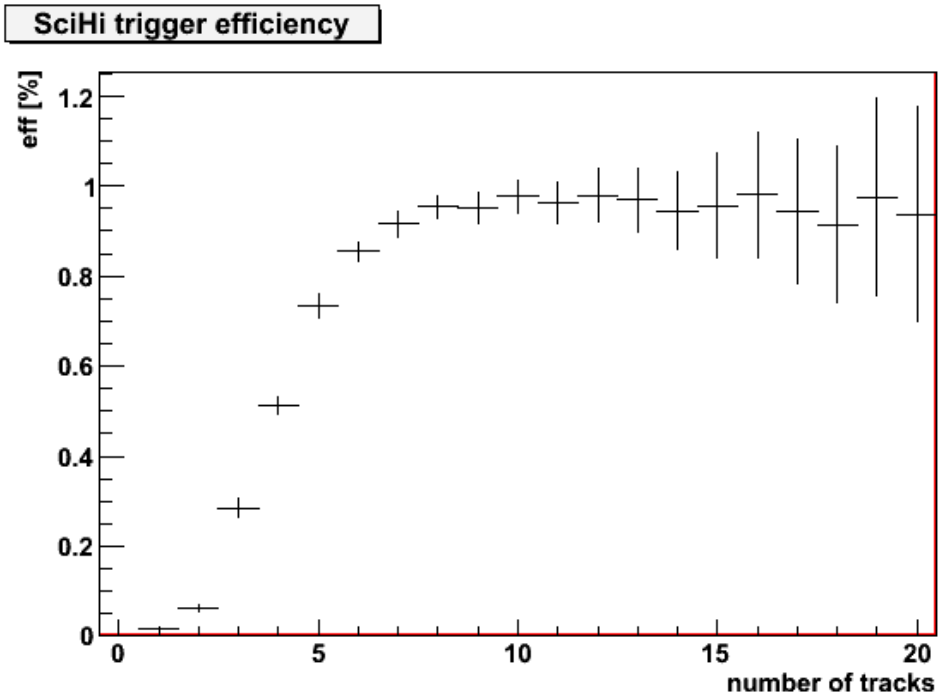
- Above multiplicity 10 efficiency were taken as 1.0



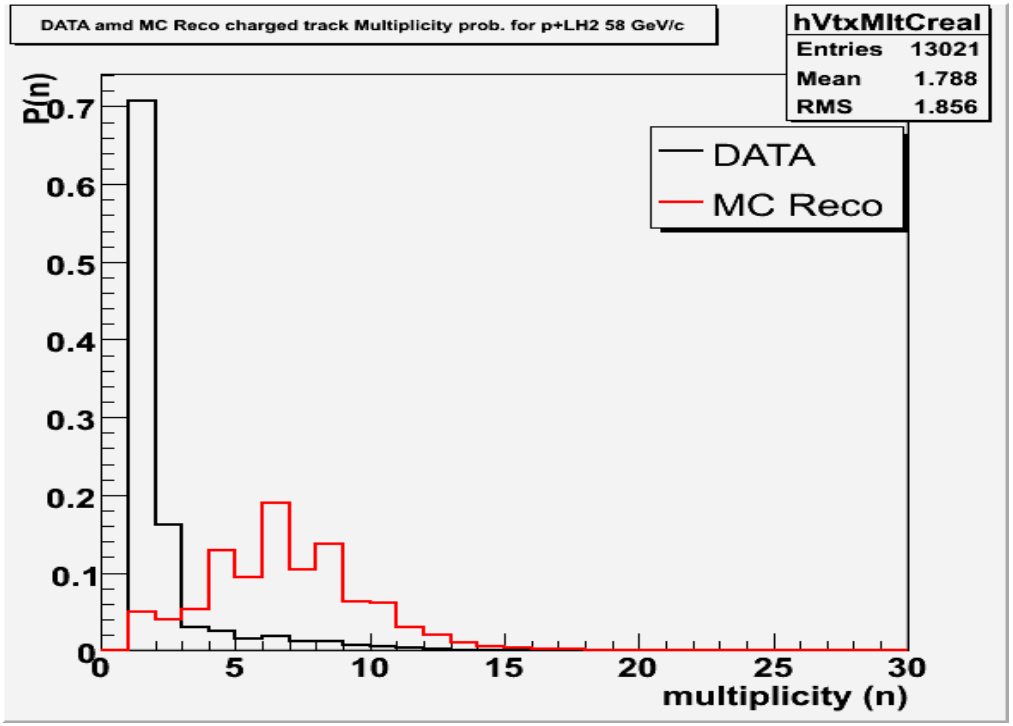
- SciHi triggered events were used for DATA

- SciHi efficiencies were applied to DATA

- Same vertex cut as above

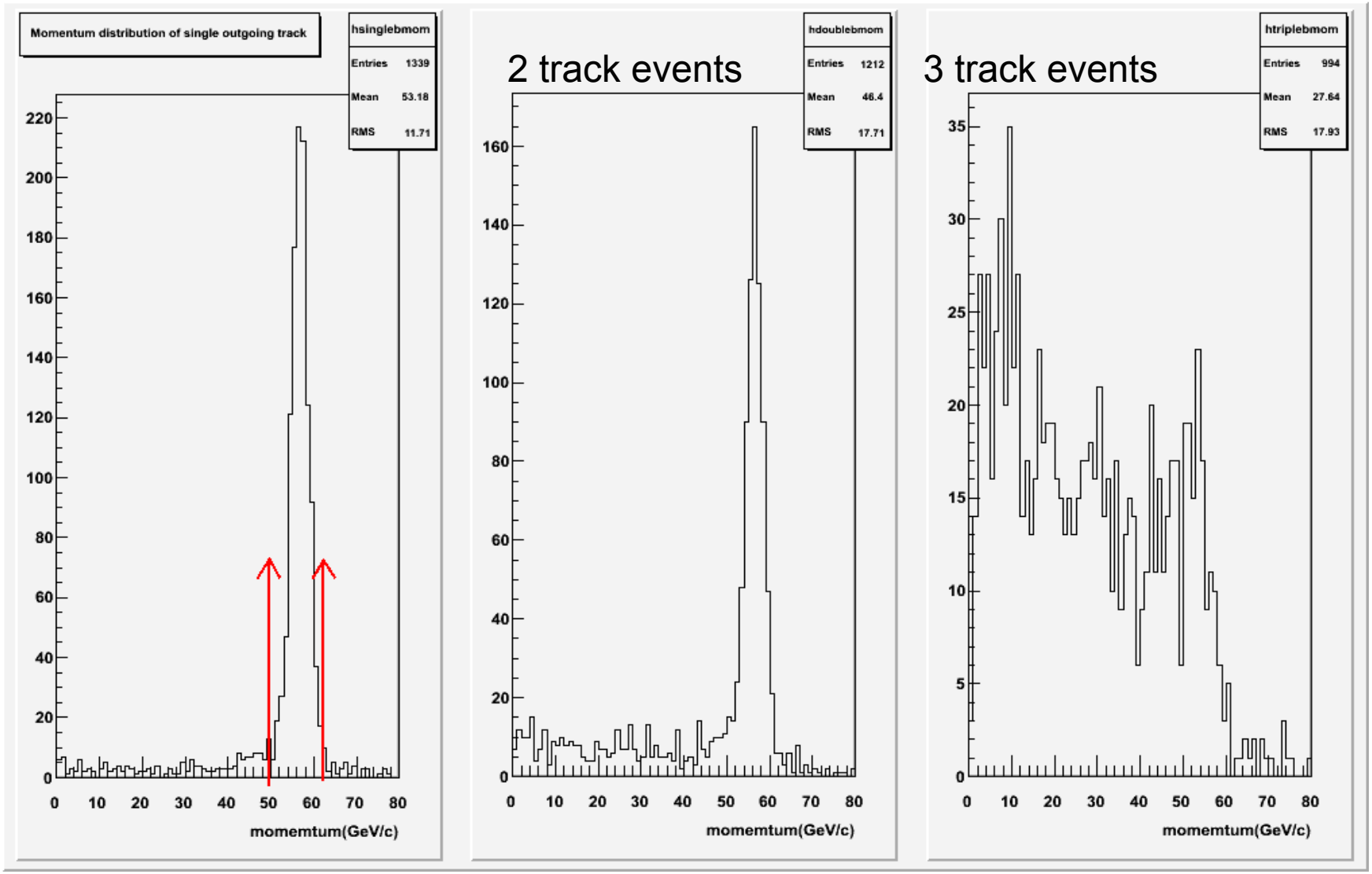


-SciHi efficiency from MC study



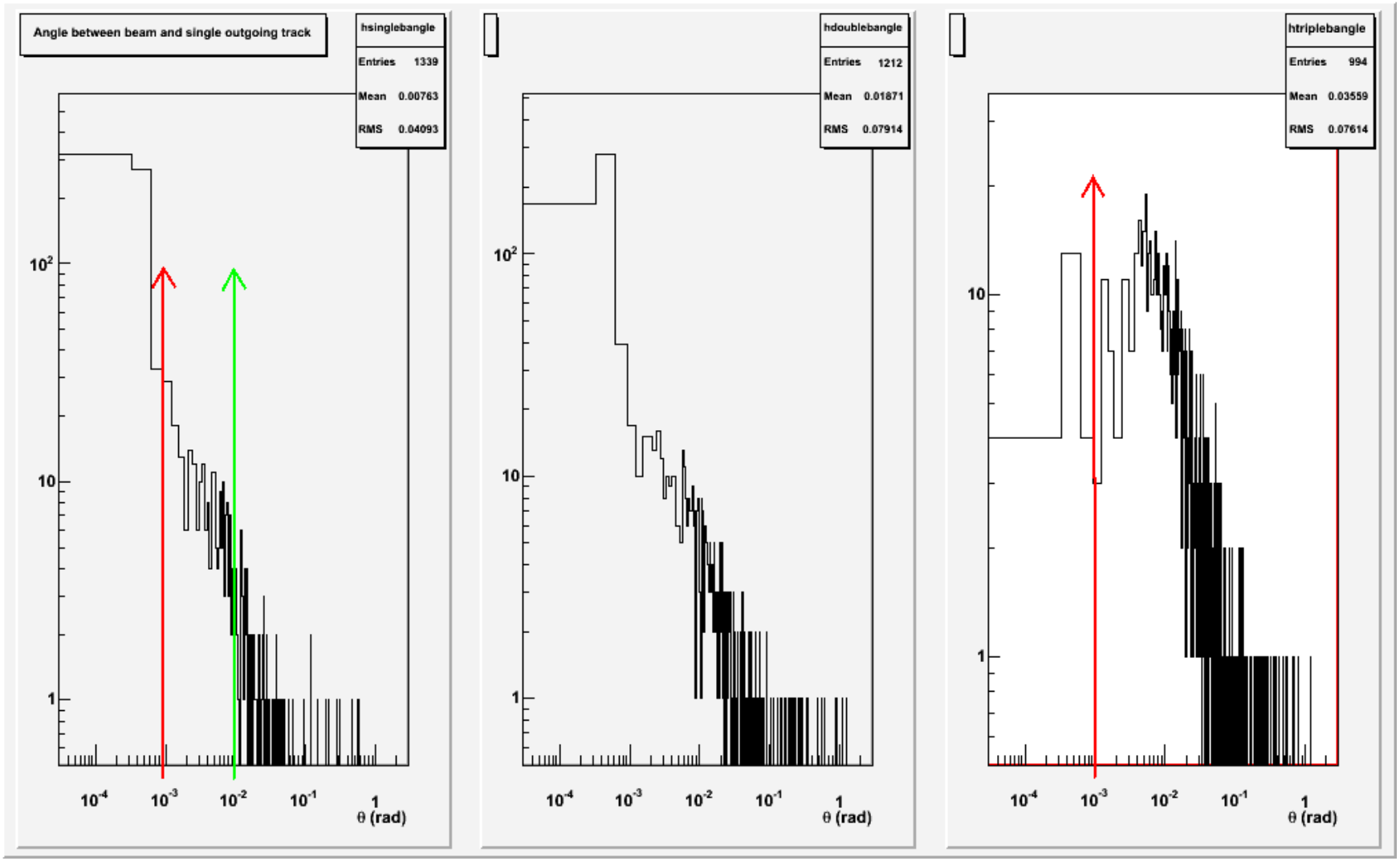
-SciHi efficiencies were applied to DATA from MC study

Momentum distribution of tracks with highest momentum for 1, 2, and 3 outgoing track events using Data



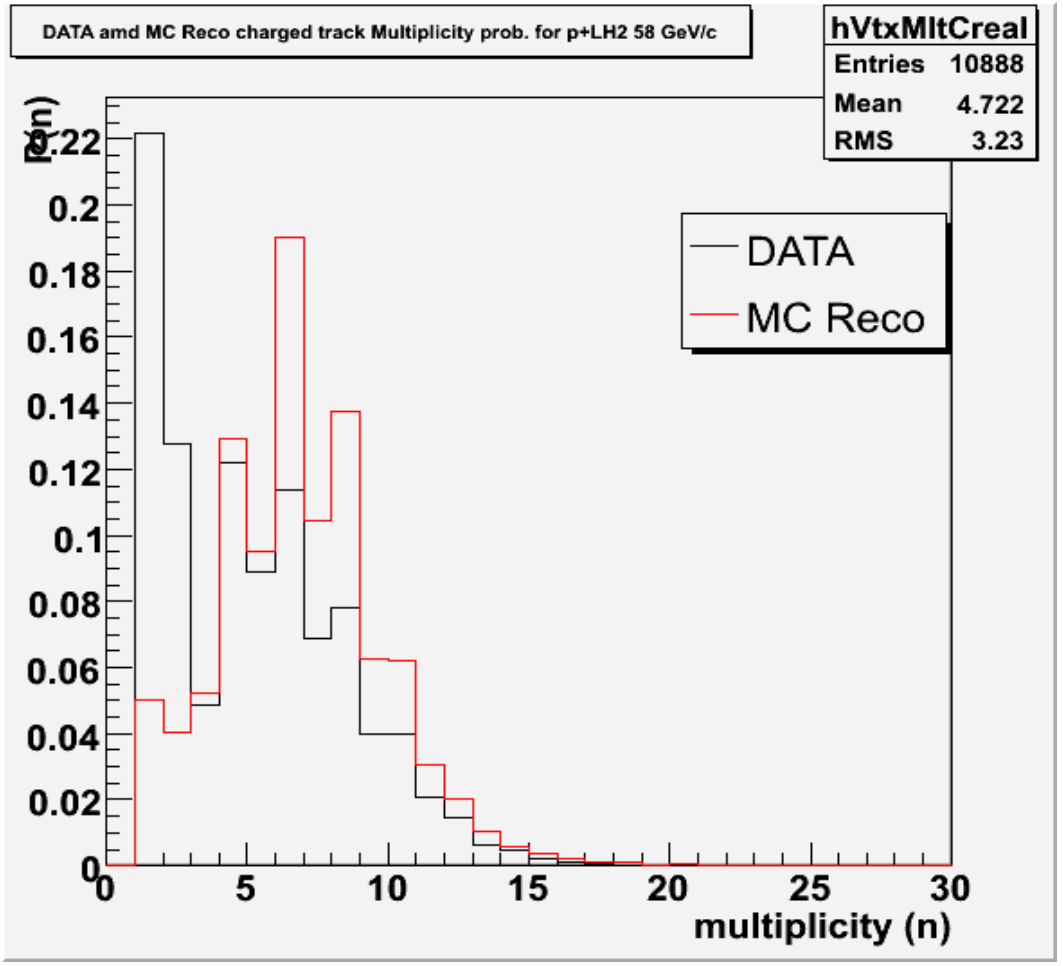
Events were cut if 50< p < 65 in multiplicity plot

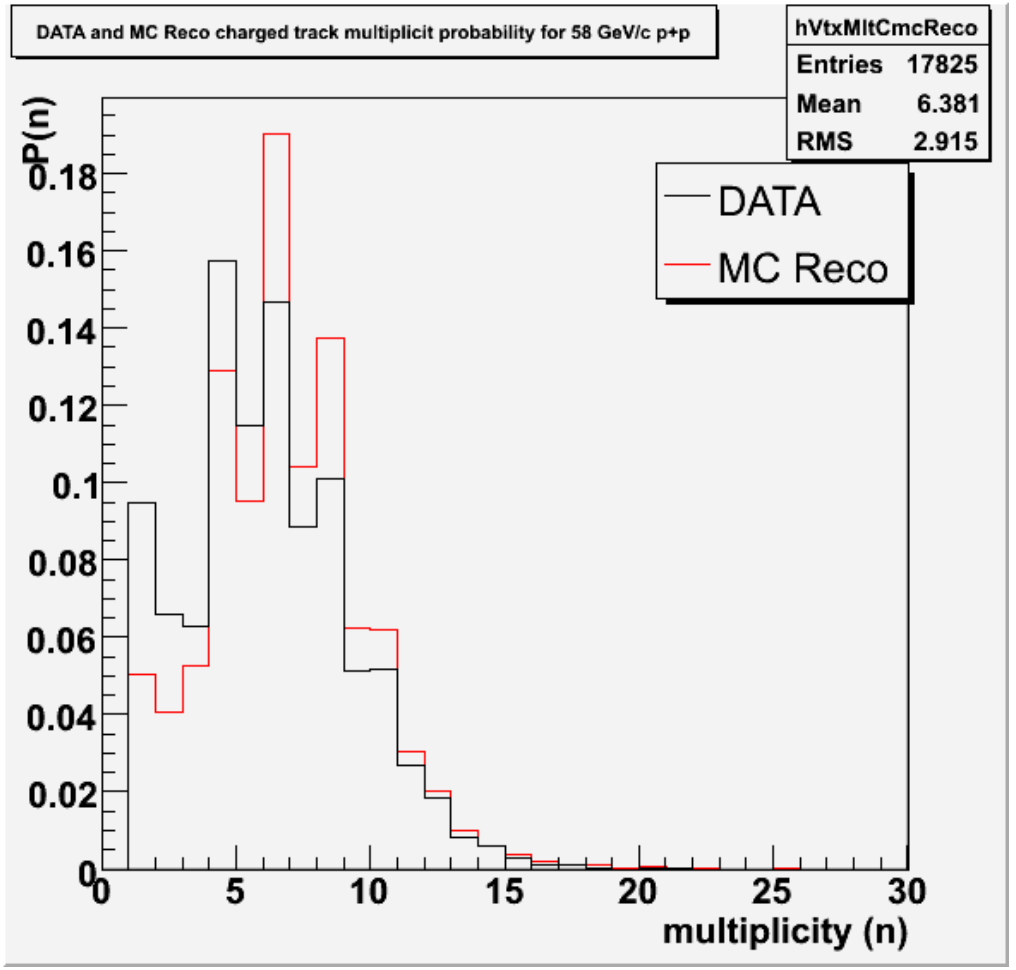
Angle distribution between beam track and outgoing track with highest momentum for 1, 1, and 3 track events using Data



Two angle cuts for 1 and 2 track events $\Theta<0.001$ and $\Theta<0.02$
For 3 track events $\Theta<0.001$

After angle and momentum cut – SciHi efficiencies from DATA

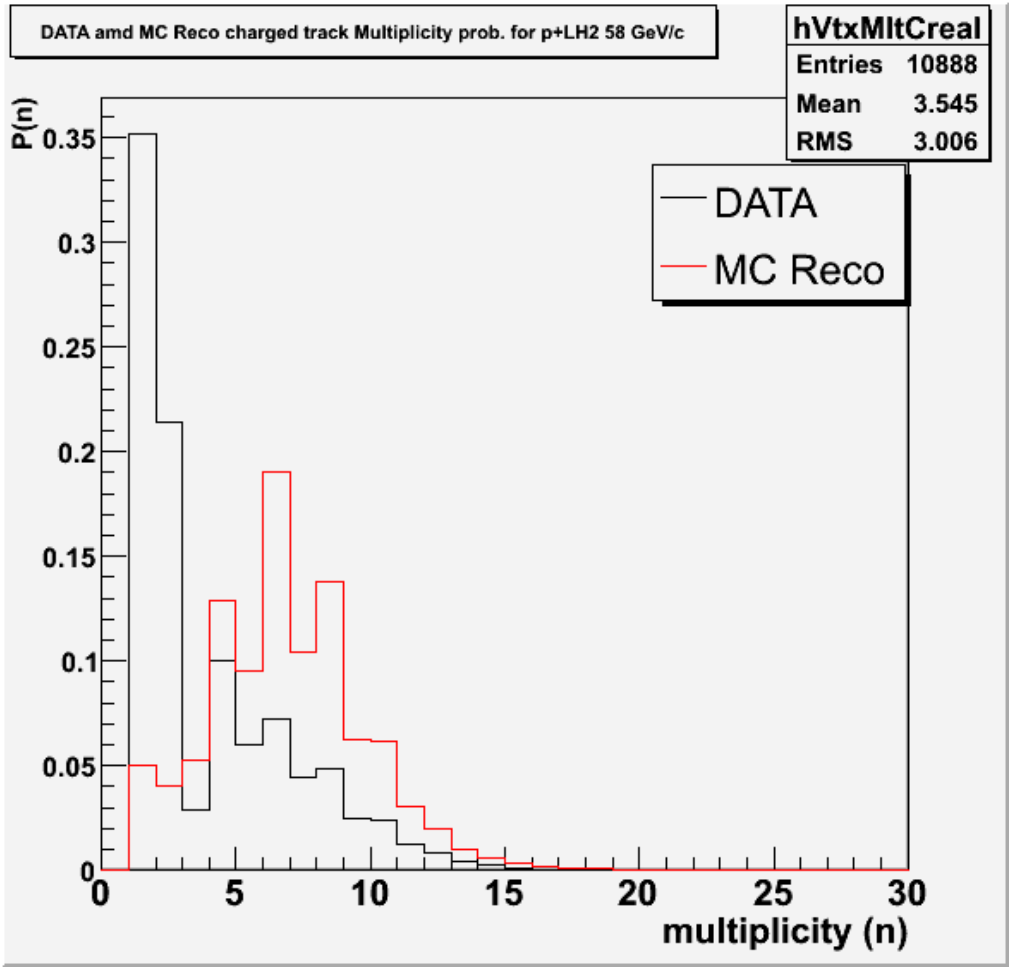


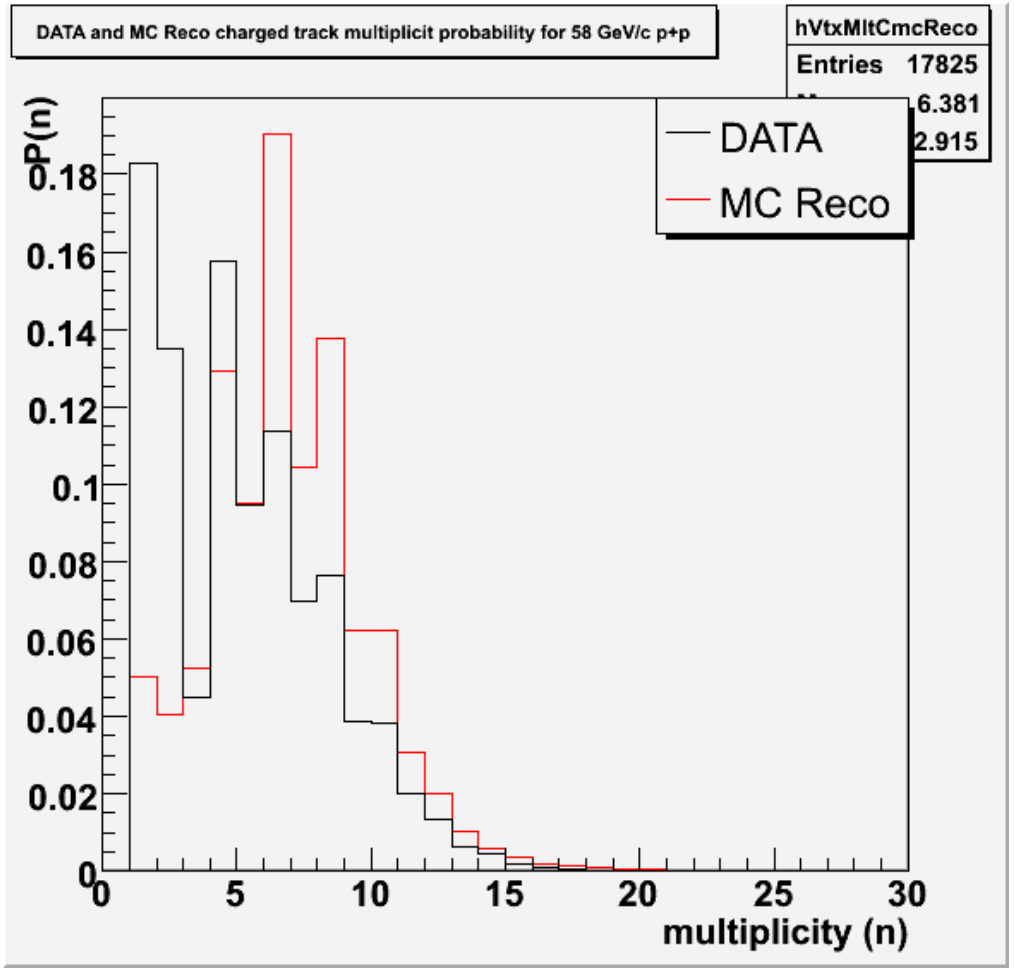


Events cut at Θ < 0.001

Θ < 0.02

After angle and momentum cut – SciHi efficiencies from MC





Events cut at Θ < 0.001

Θ < 0.02