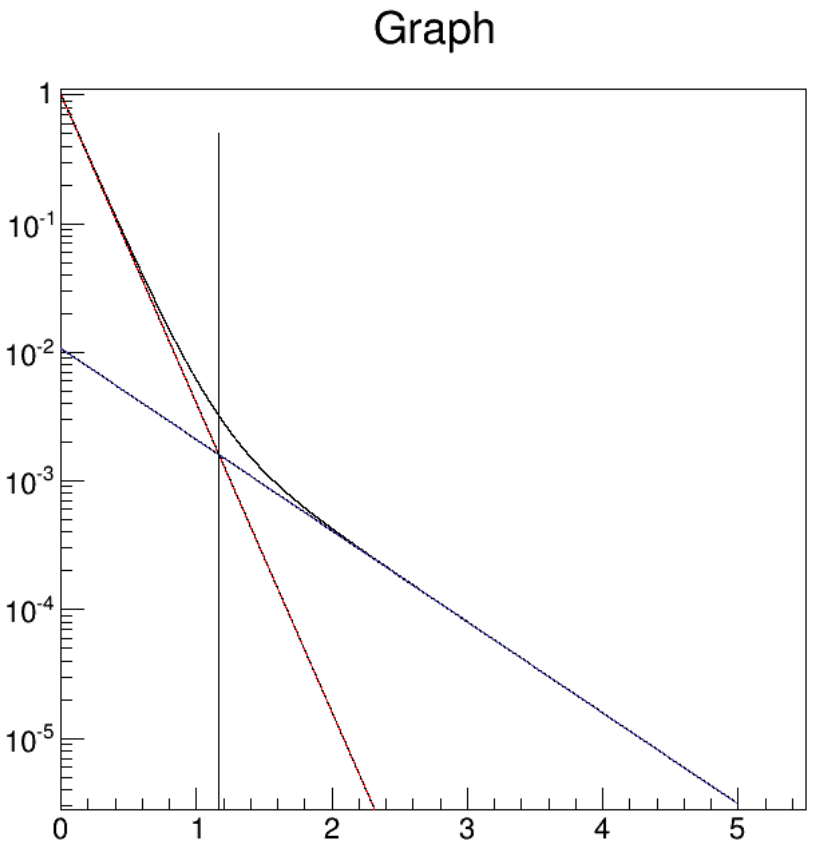
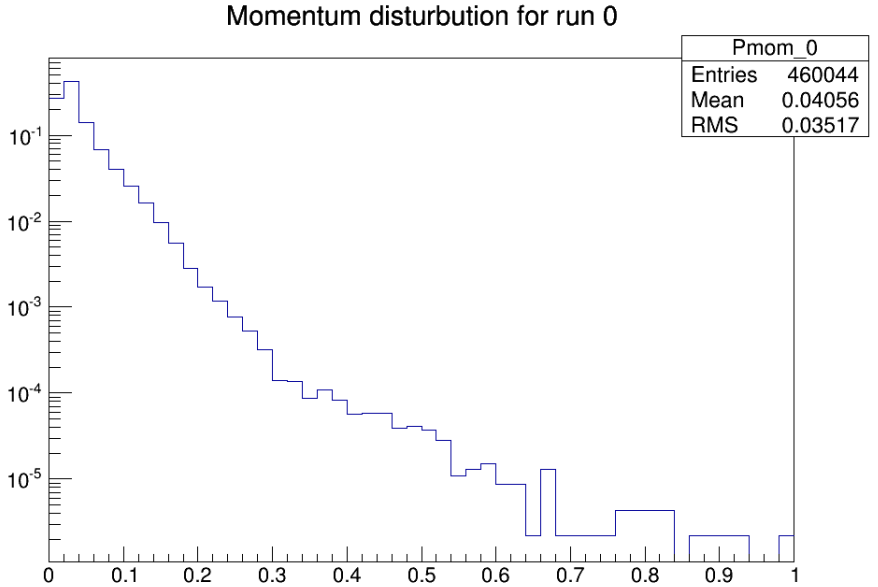
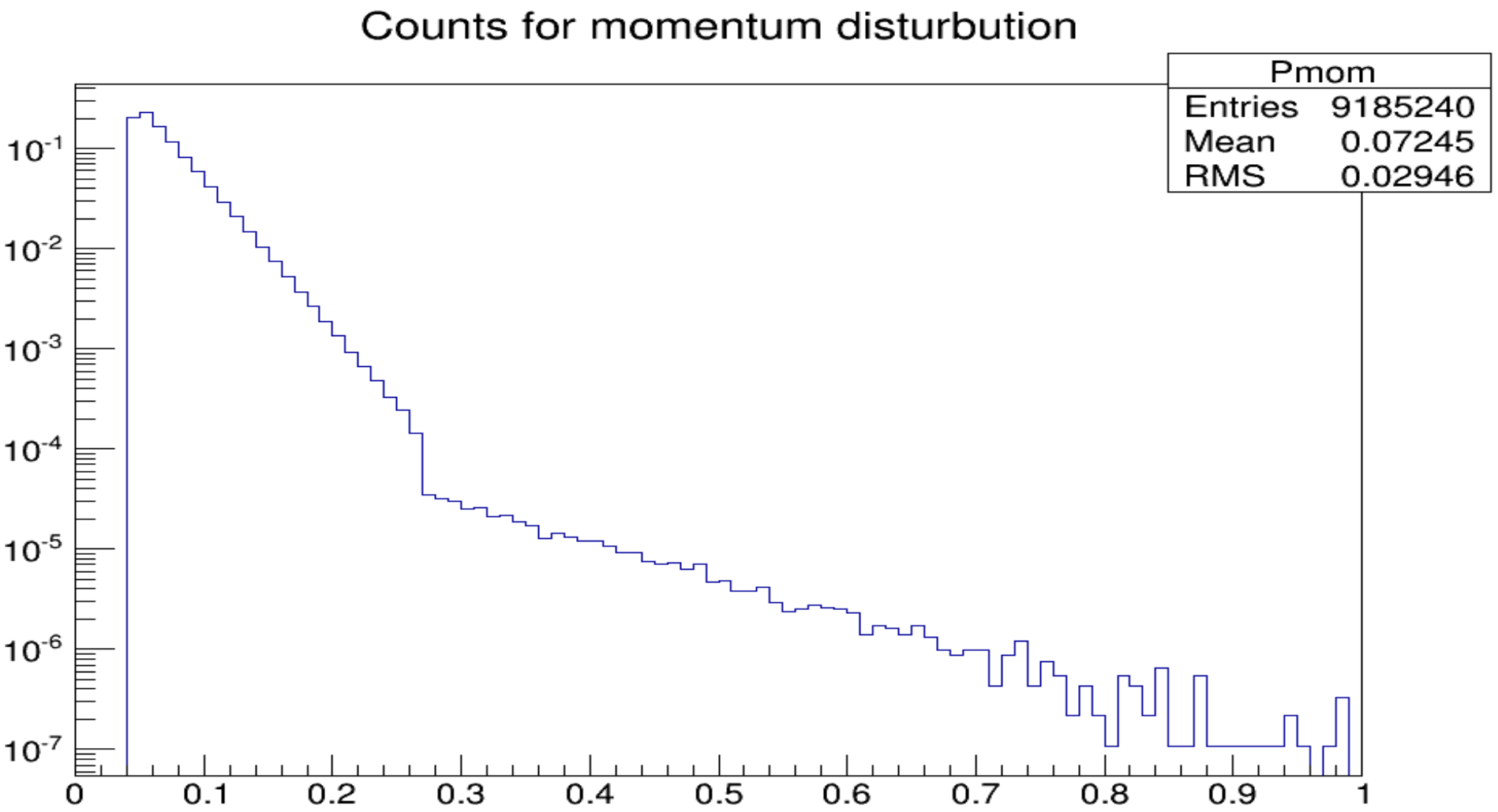
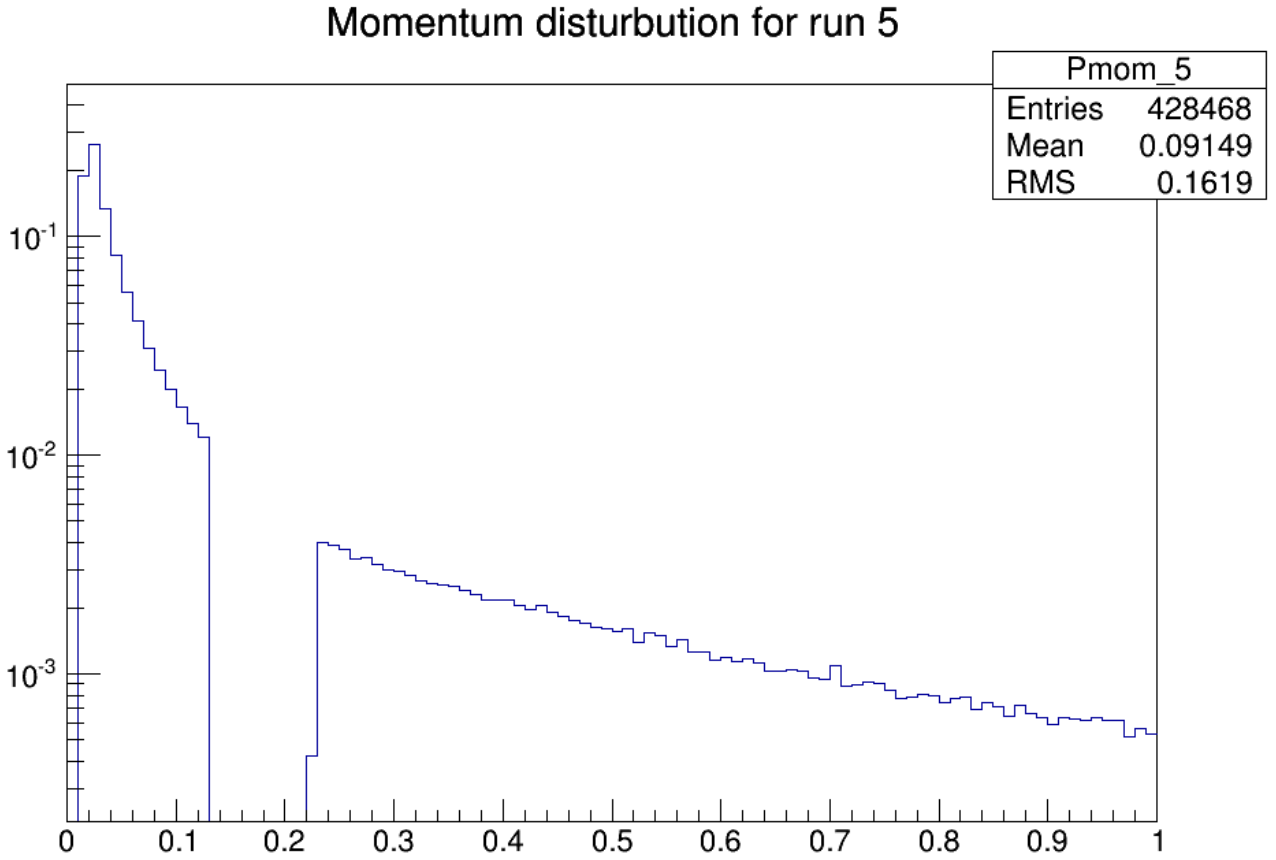
Simulation update

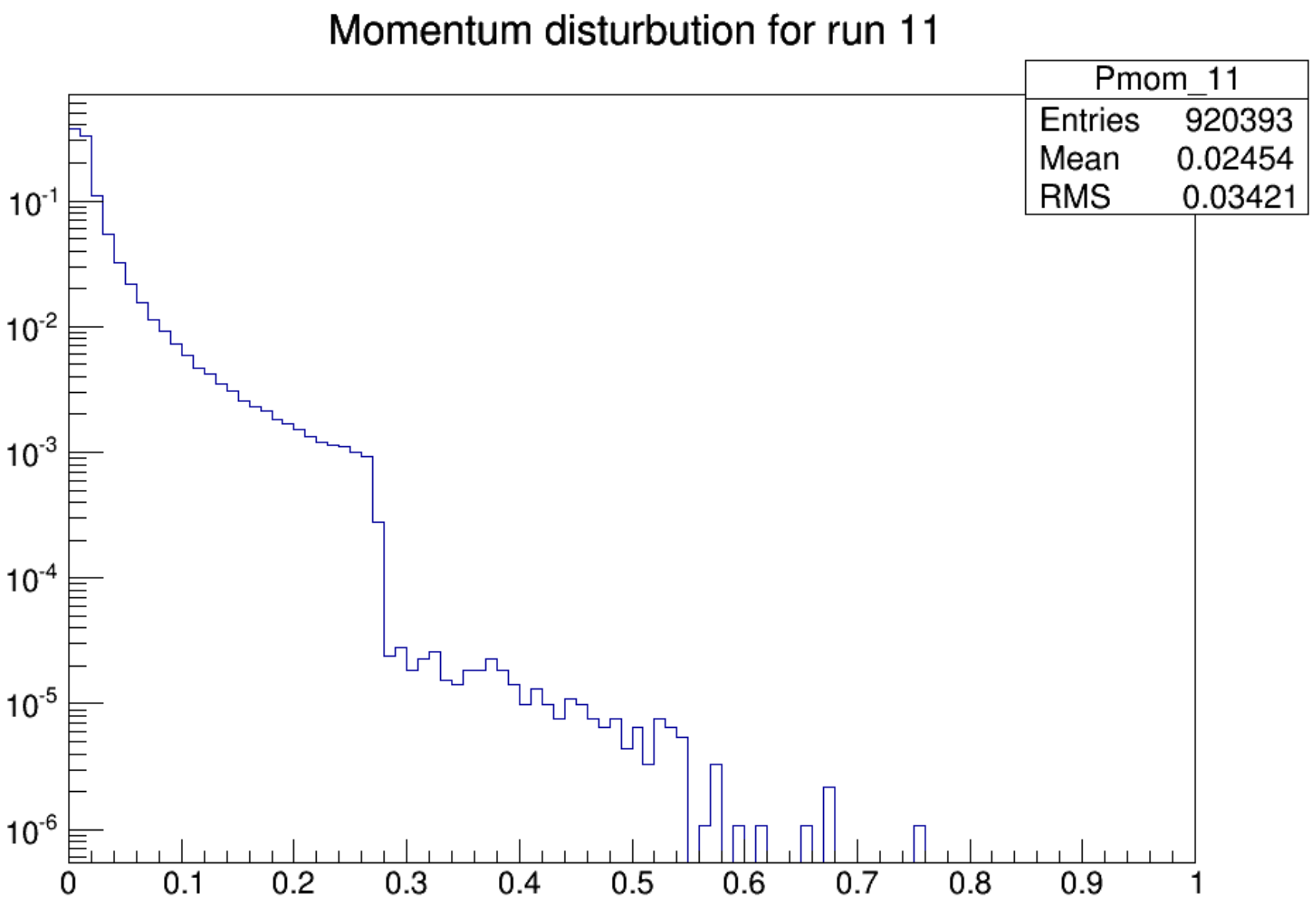
- Made a github repository
  - https://github.com/jbane11/Simulation.git
  - Please feel free to look at the last version I put on there.
    - And let me know if there are any bugs, typos, suggestions..... Instruction are in the Readme.


Graph
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
1
2
3
4
5

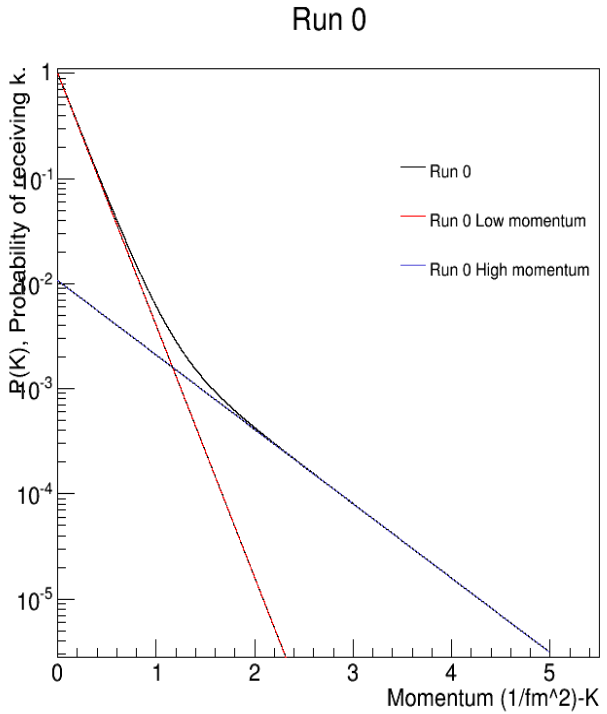

Momentum disturbution for run 0
Pmom_0
Entries 460044
Mean 0.04056
RMS 0.03517
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

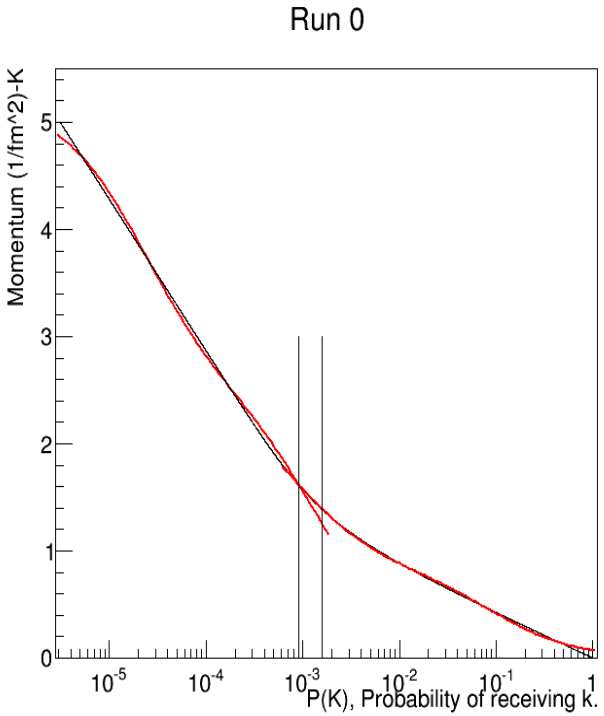

Counts for momentum disturbution
Pmom
Entries 9185240
Mean 0.07245
RMS 0.02946
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
10^-7
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

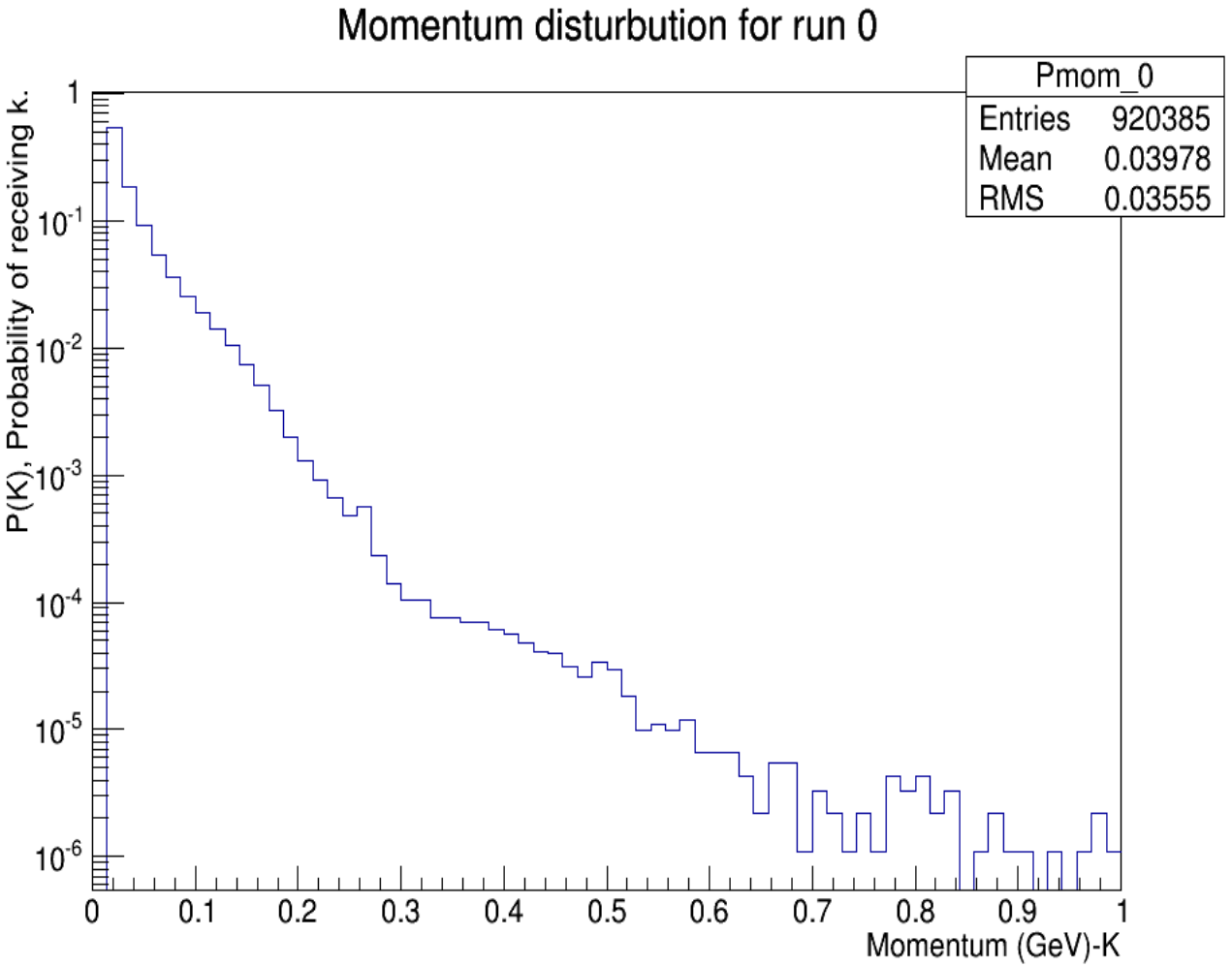

Momentum disturbution for run 5
Pmom_5
Entries 428468
Mean 0.09149
RMS 0.1619
10^{-1}
10^{-2}
10^{-3}
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

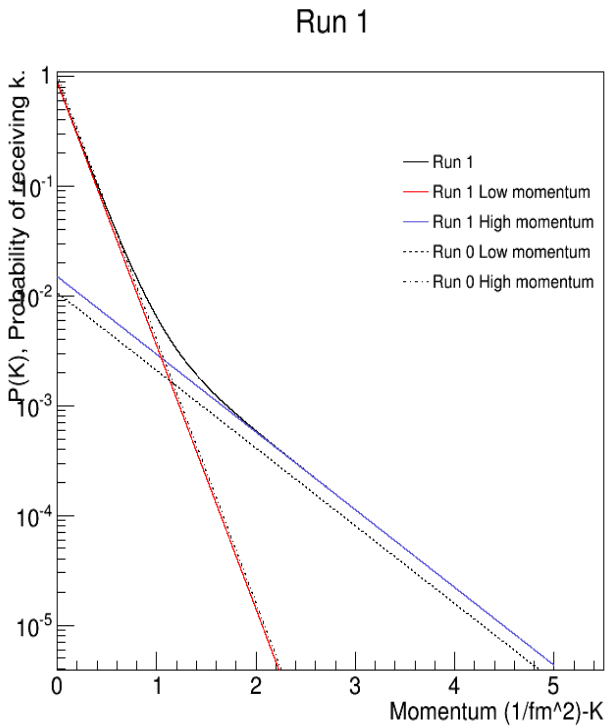

Momentum disturbution for run 11
Pmom_11
Entries 920393
Mean 0.02454
RMS 0.03421
10^-1
10^-2
10^-3
10^-4
10^-5
10^-6
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

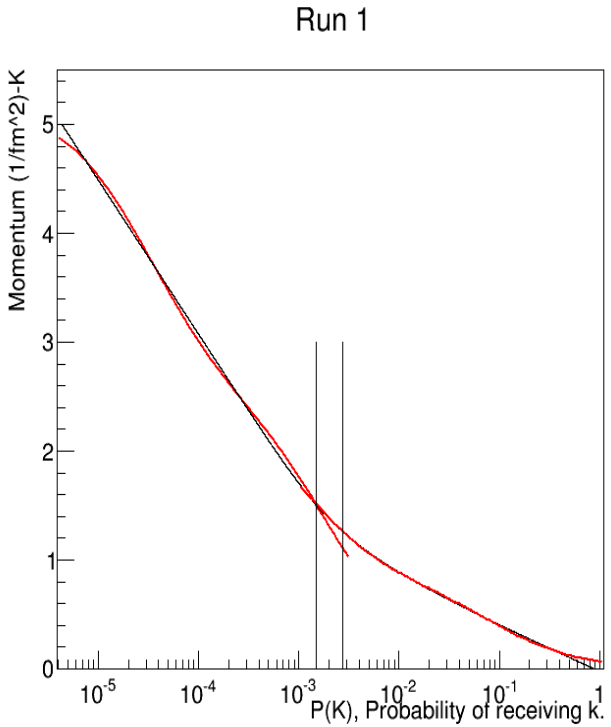
Momentum distributions for the different runs.

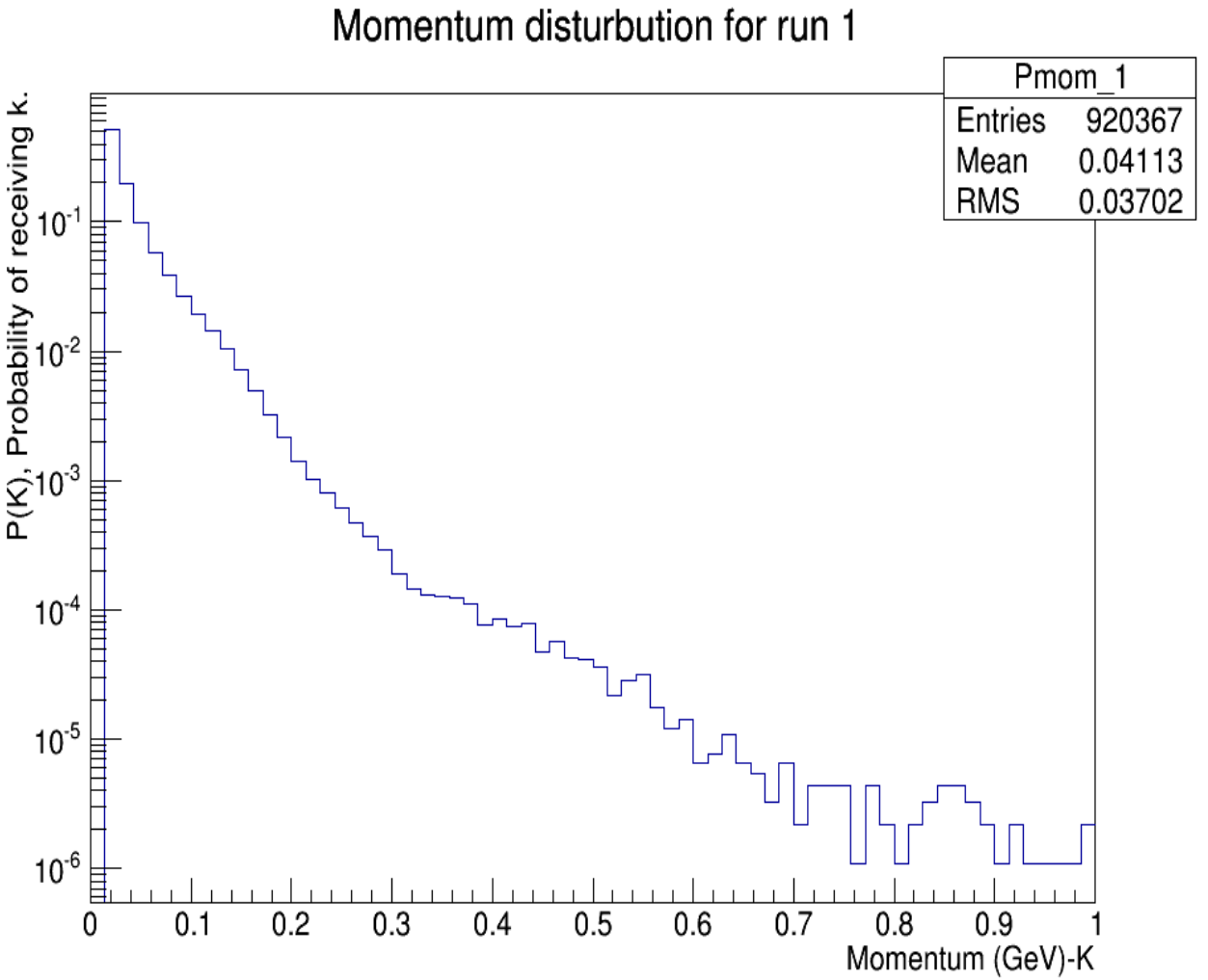


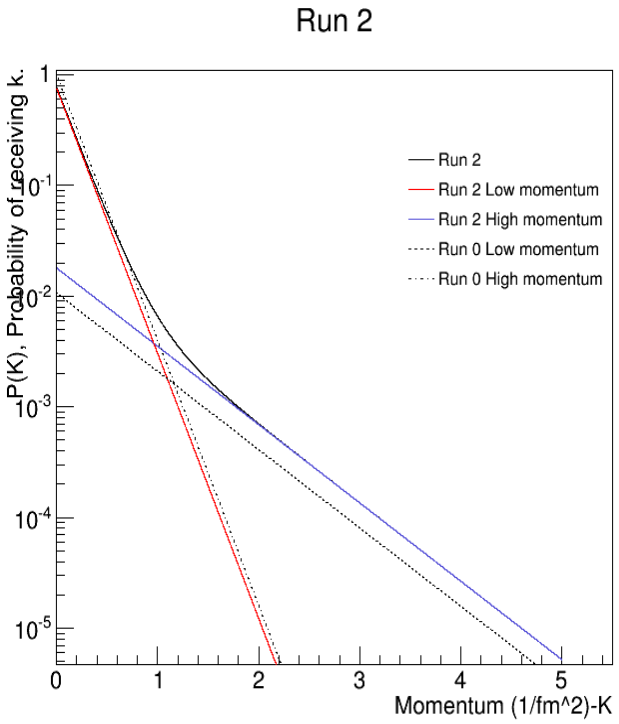


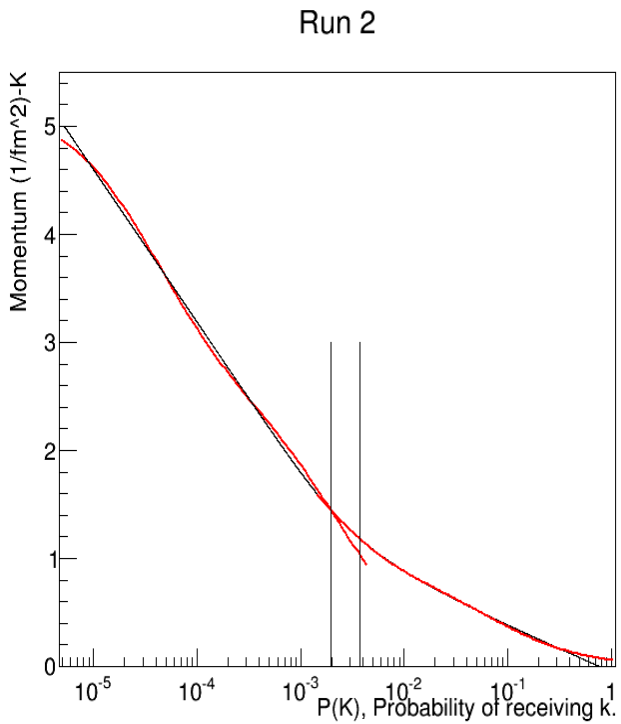


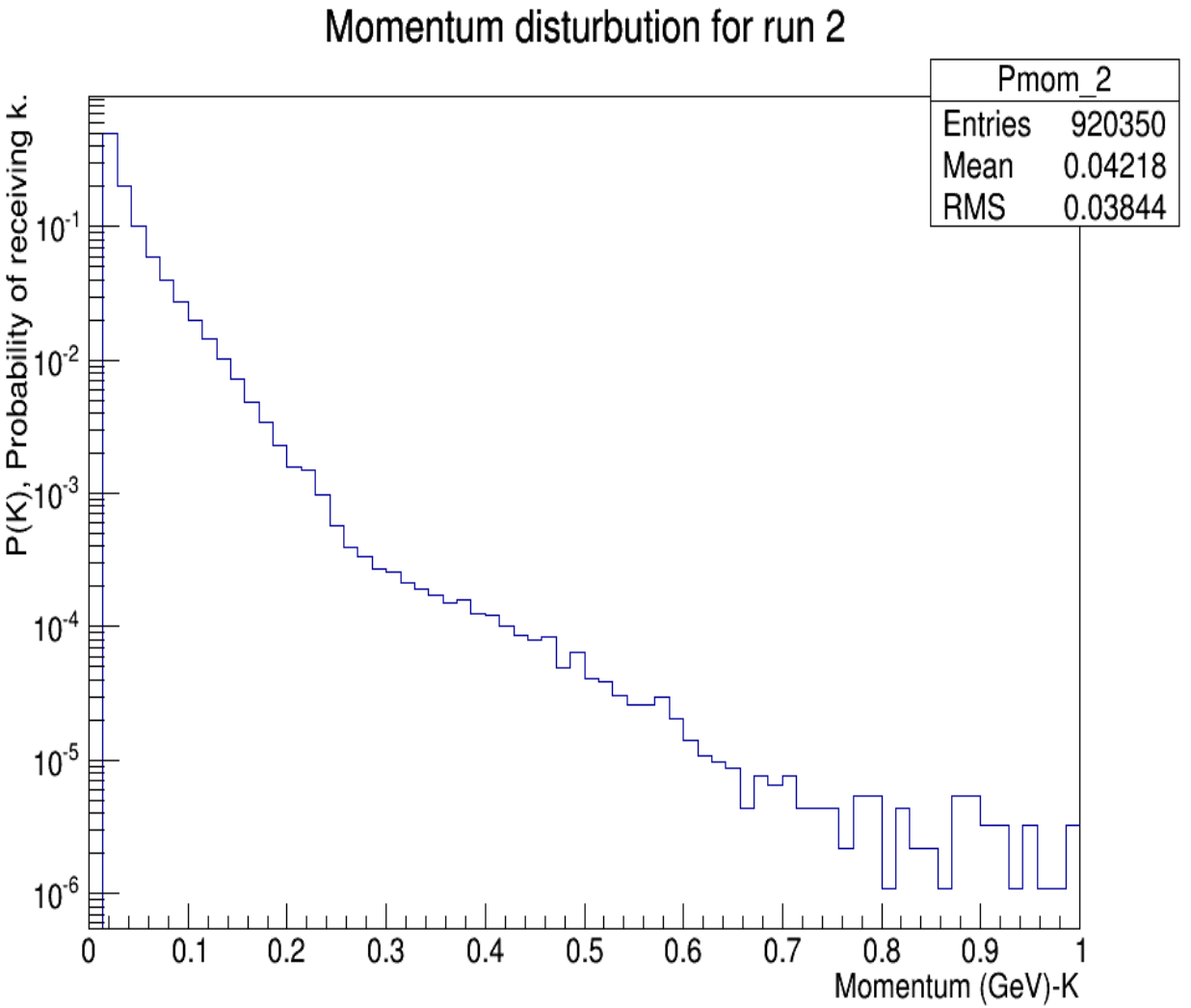

Run 1
P(K), Probability of receiving k.
Momentum (1/fm^2)-K
Run 1
Run 1 Low momentum
Run 1 High momentum
Run 0 Low momentum
Run 0 High momentum


Run 1
Momentum (1/fm^2)-K
P(K), Probability of receiving k.

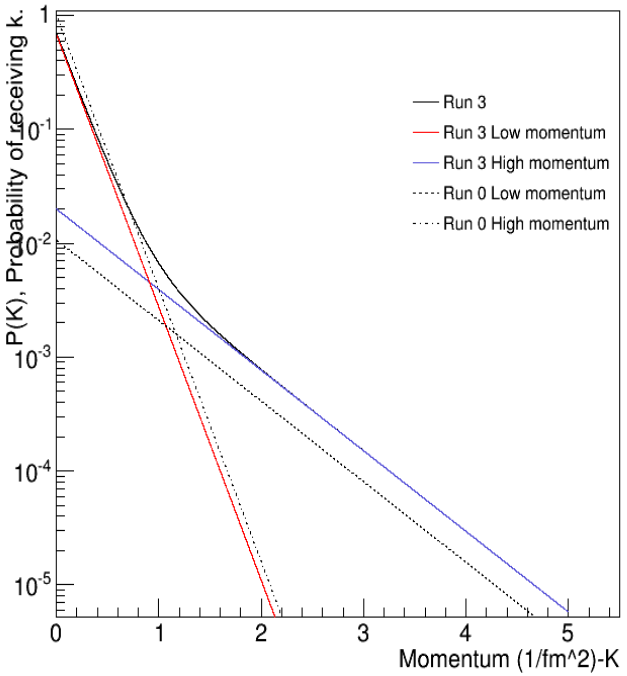

Momentum disturbution for run 1
Pmom_1
Entries 920367
Mean 0.04113
RMS 0.03702
P(K), Probability of receiving k.
Momentum (GeV)-K


Run 2
P(K), Probability of receiving k.
Momentum (1/fm^2)-K
Run 2
Run 2 Low momentum
Run 2 High momentum
Run 0 Low momentum
Run 0 High momentum

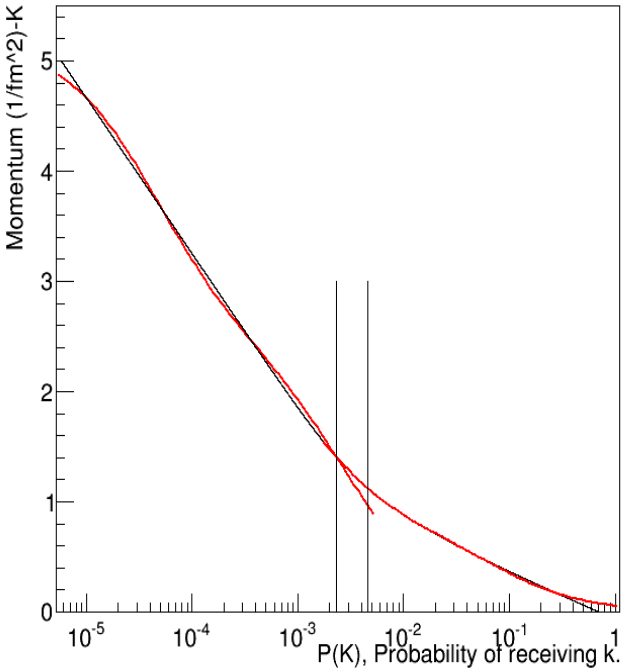

Run 2
Momentum (1/fm^2)-K
P(K), Probability of receiving k.


Momentum disturbution for run 2
Pmom_2
Entries 920350
Mean 0.04218
RMS 0.03844
P(K), Probability of receiving k.
Momentum (GeV)-K

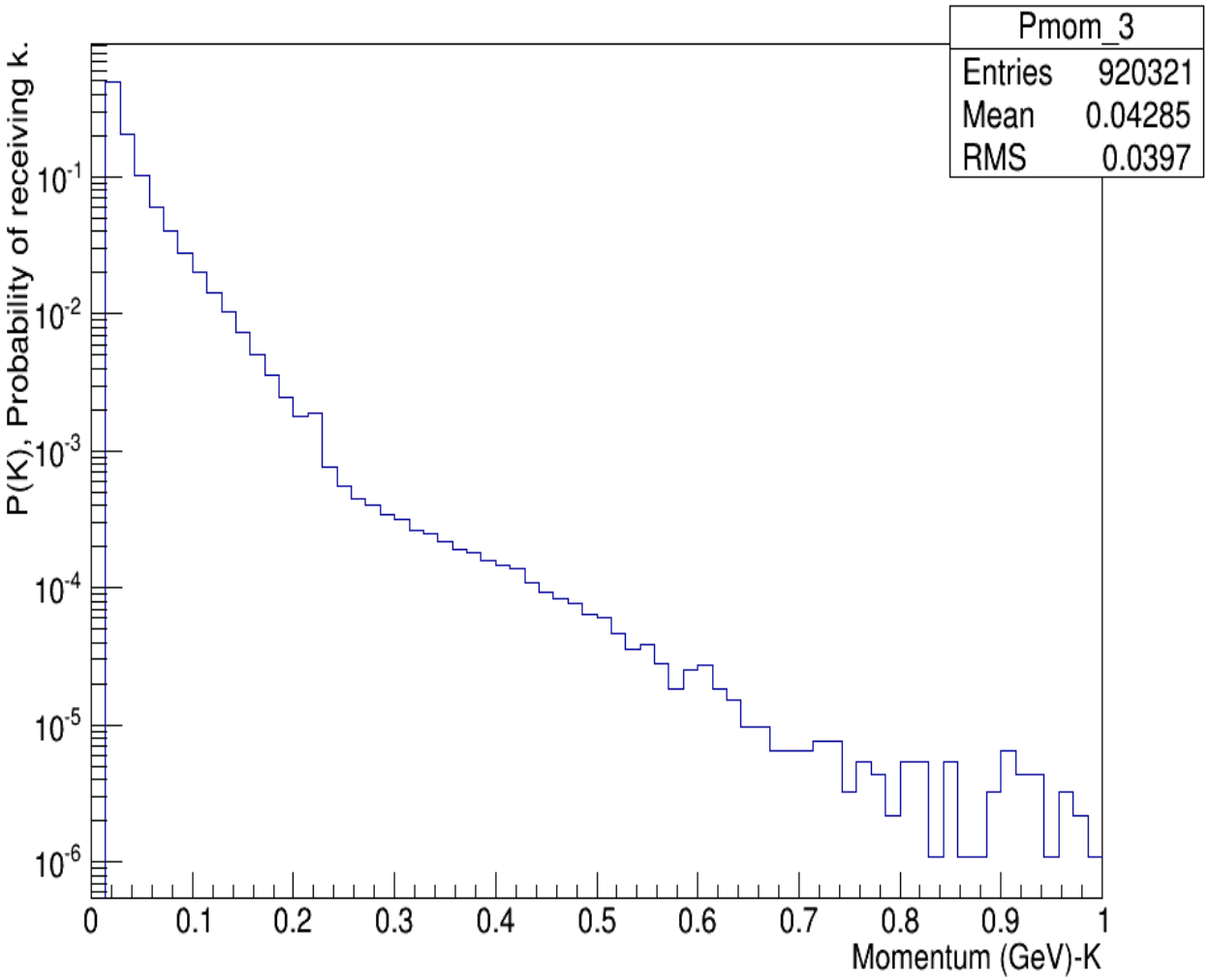
Run 3



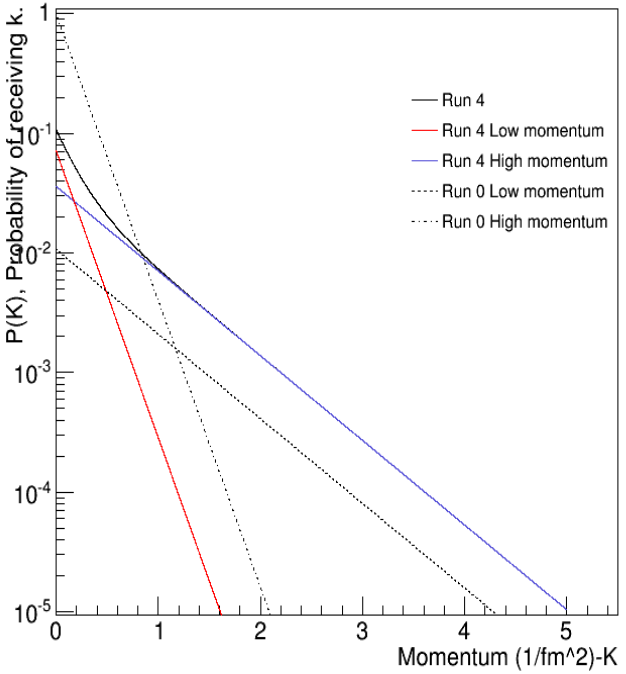
Run 3



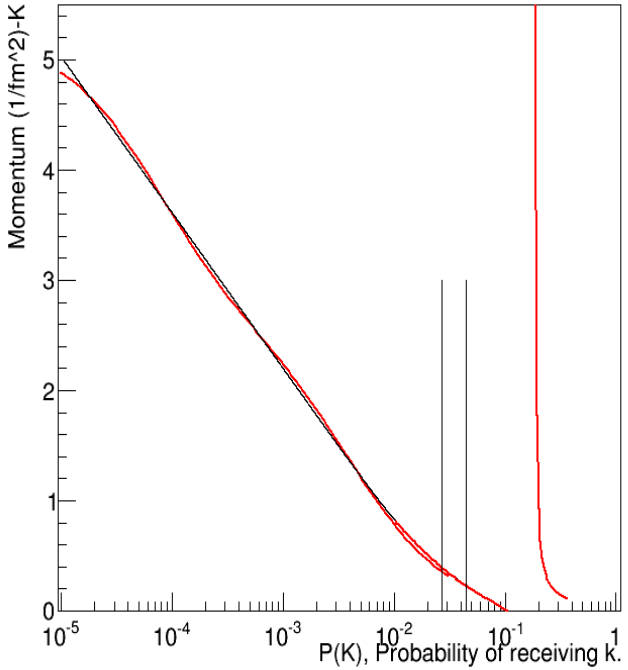
Momentum disturbution for run 3



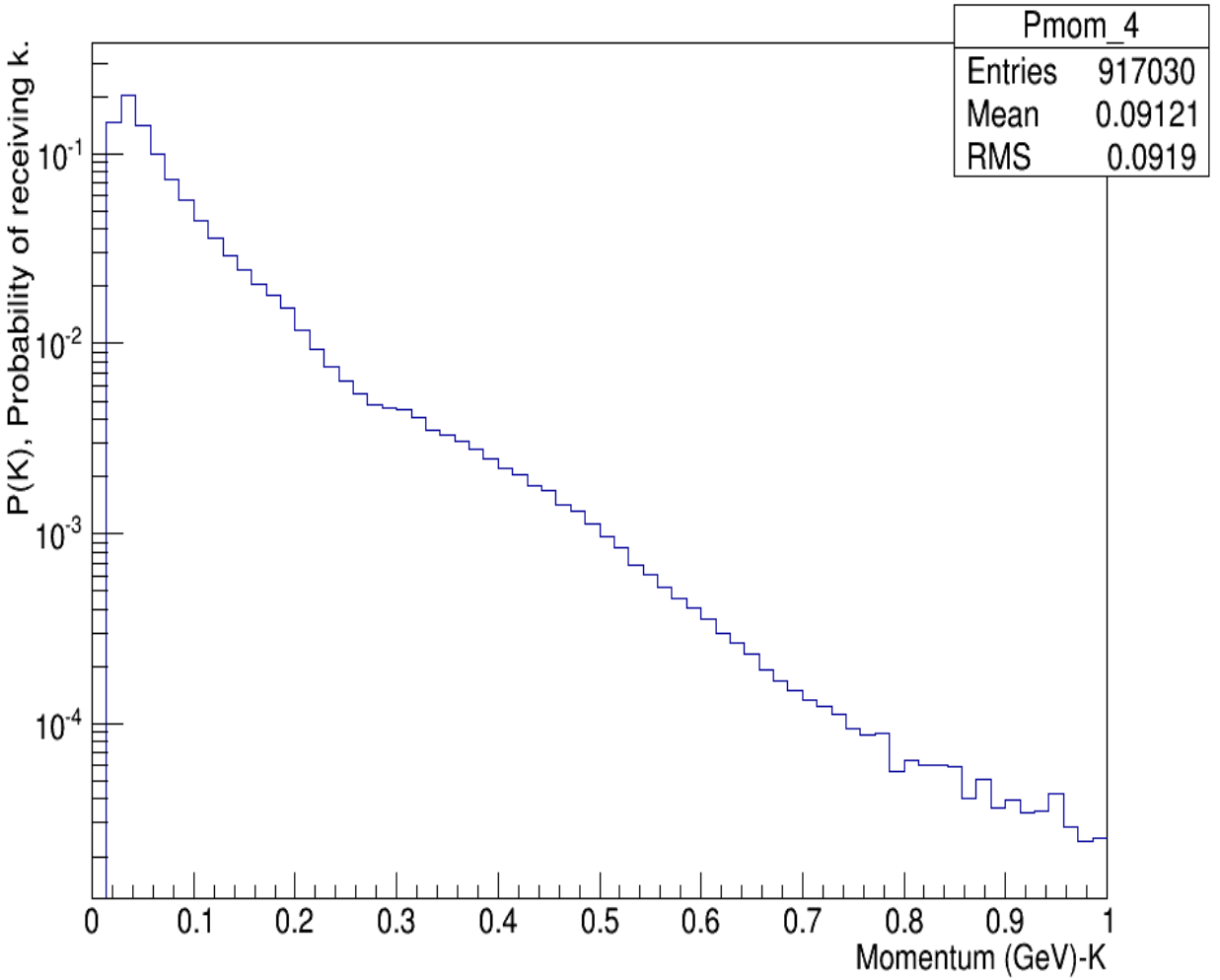
Run 4

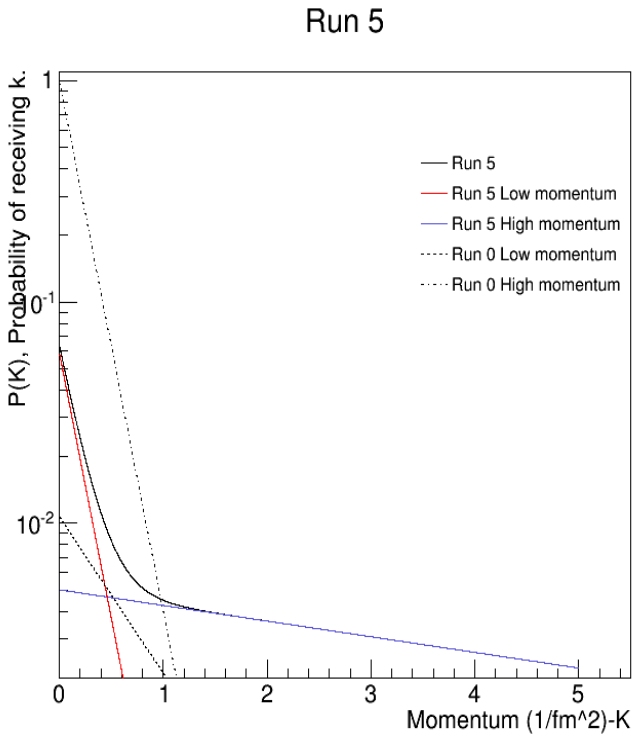


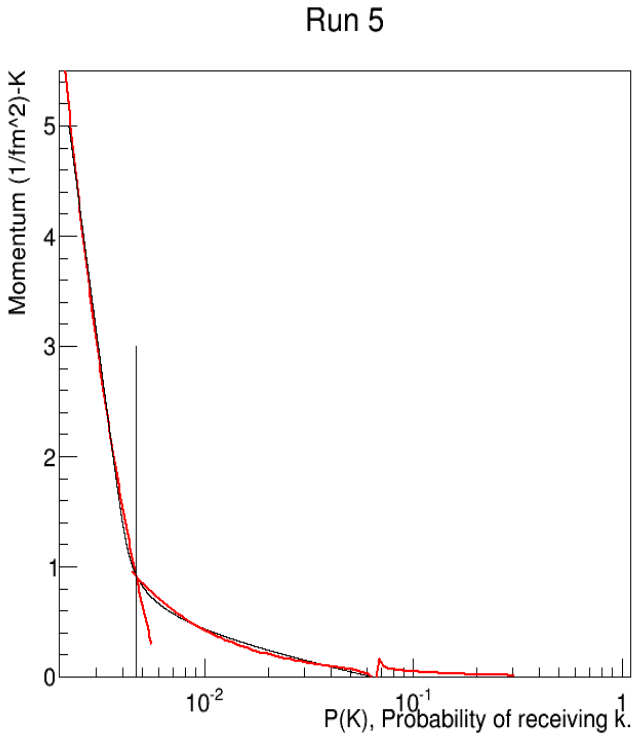
Run 4

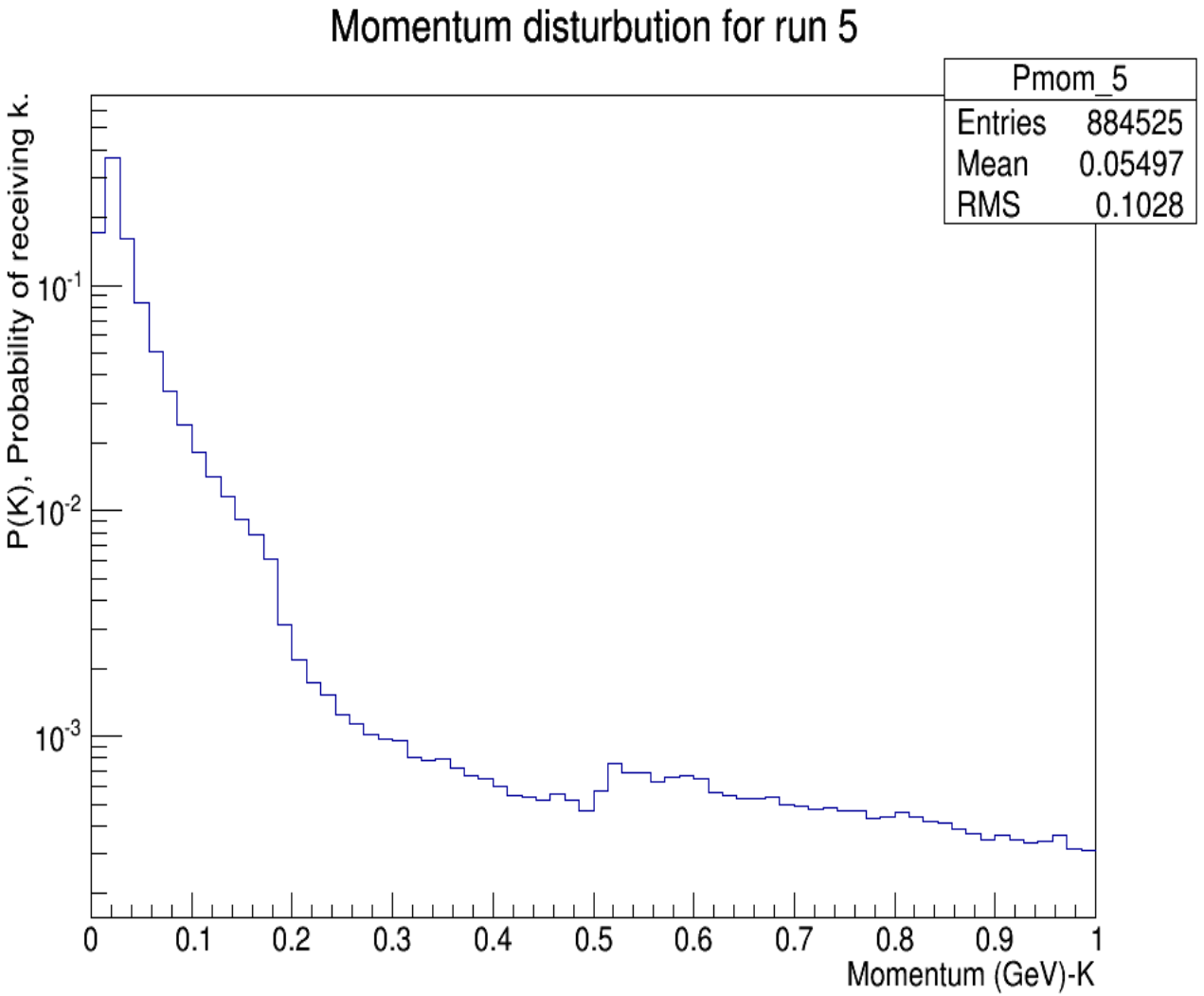


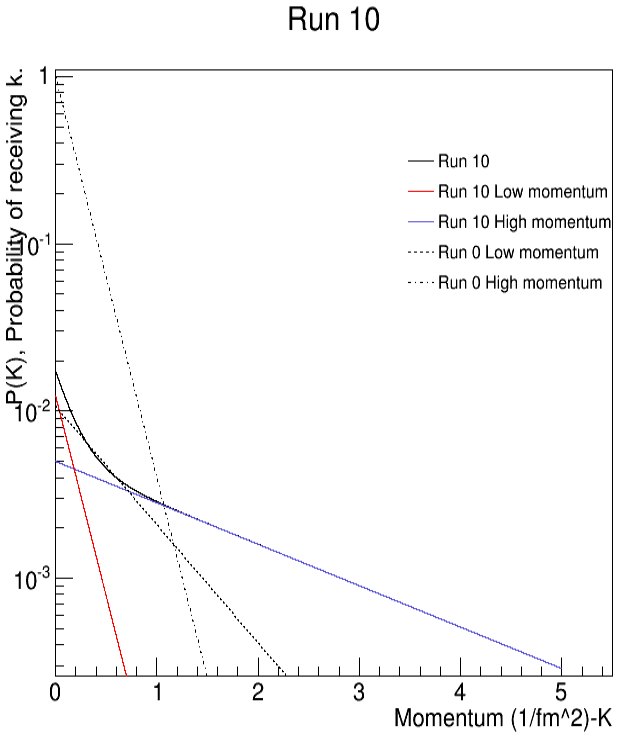
Momentum disturbution for run 4

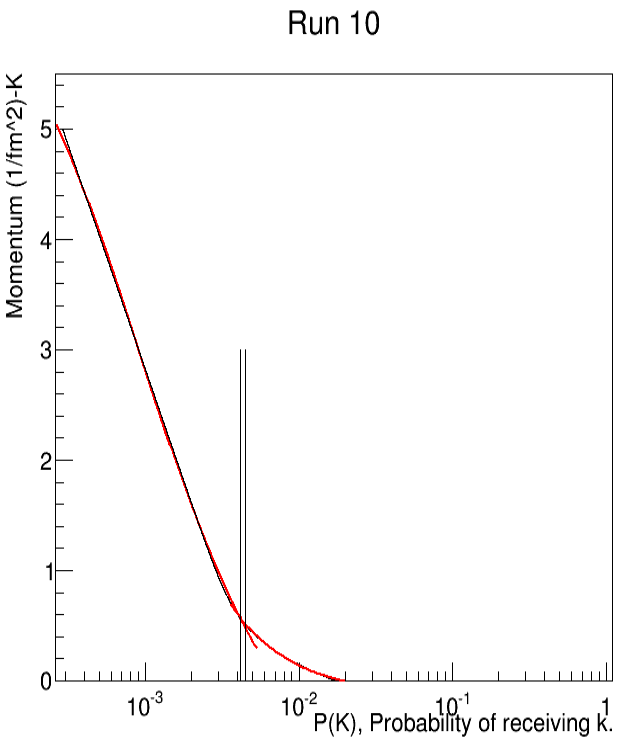


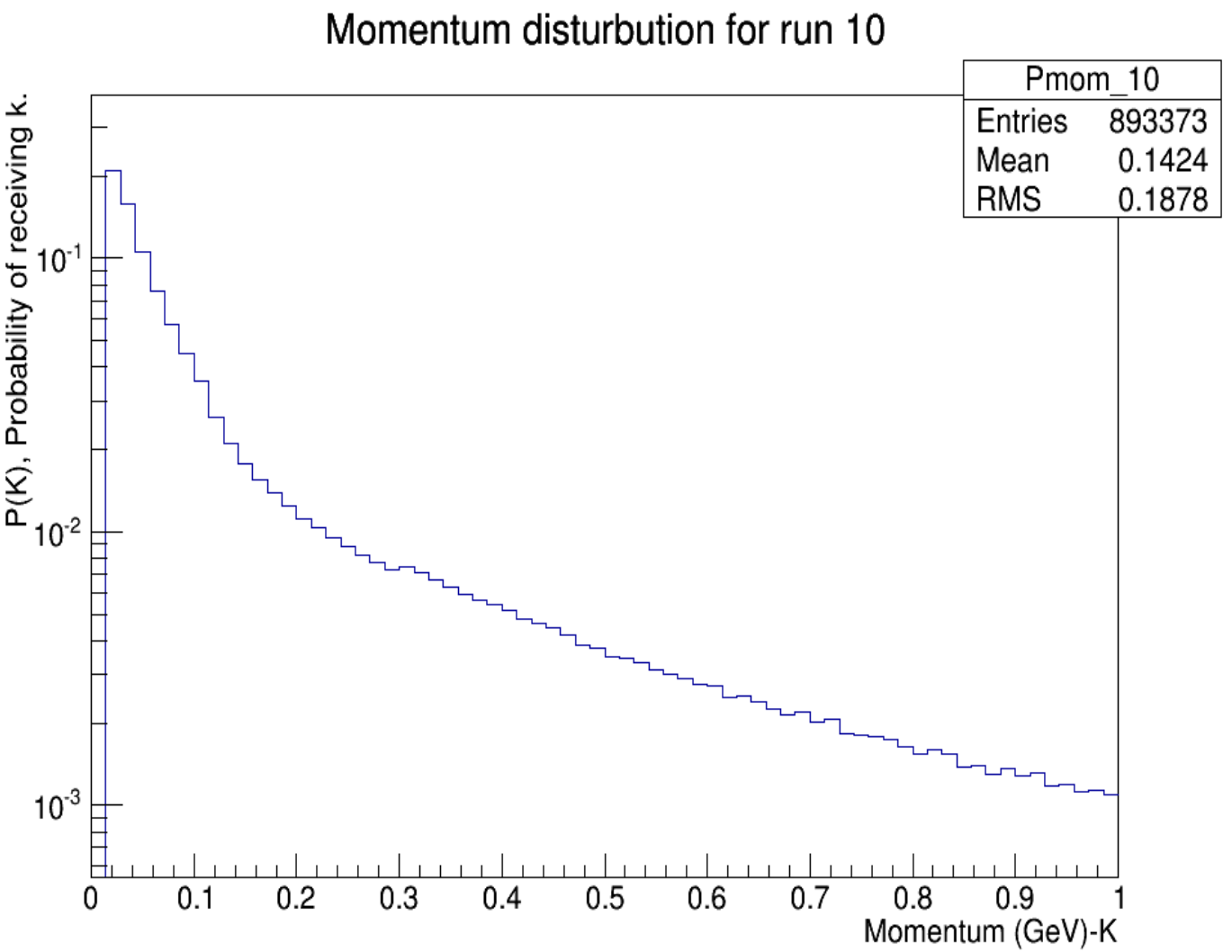

Run 5
P(K), Probability of receiving k.
Momentum (1/fm^2)-K
Run 5
Run 5 Low momentum
Run 5 High momentum
Run 0 Low momentum
Run 0 High momentum

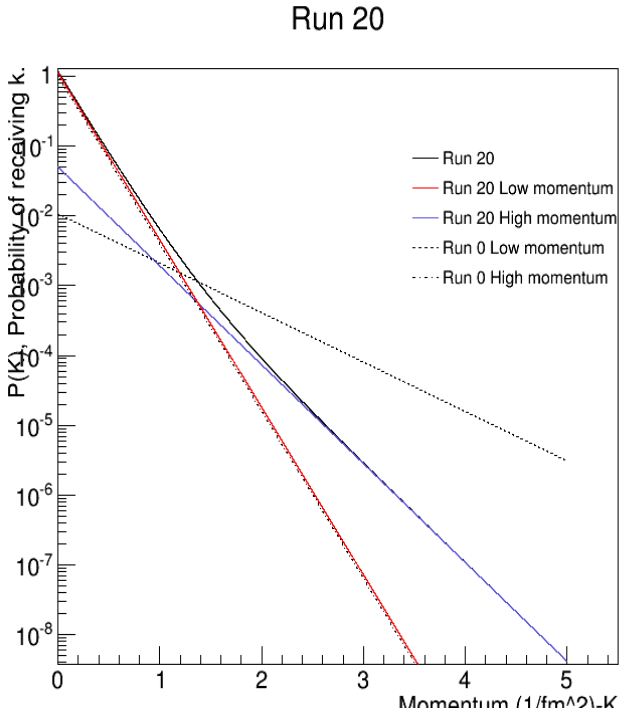

Run 5
Momentum (1/fm^2)-K
P(K), Probability of receiving k.

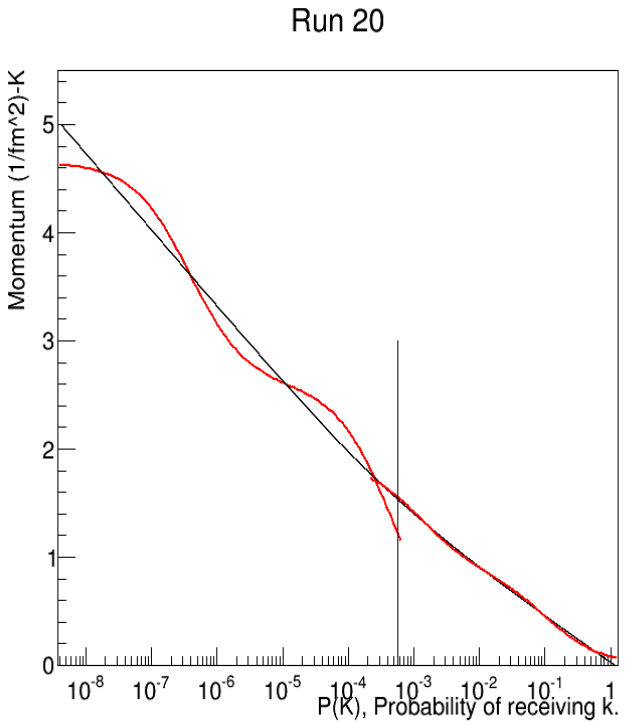

Momentum disturbution for run 5
Pmom_5
Entries 884525
Mean 0.05497
RMS 0.1028
P(K), Probability of receiving k.
Momentum (GeV)-K

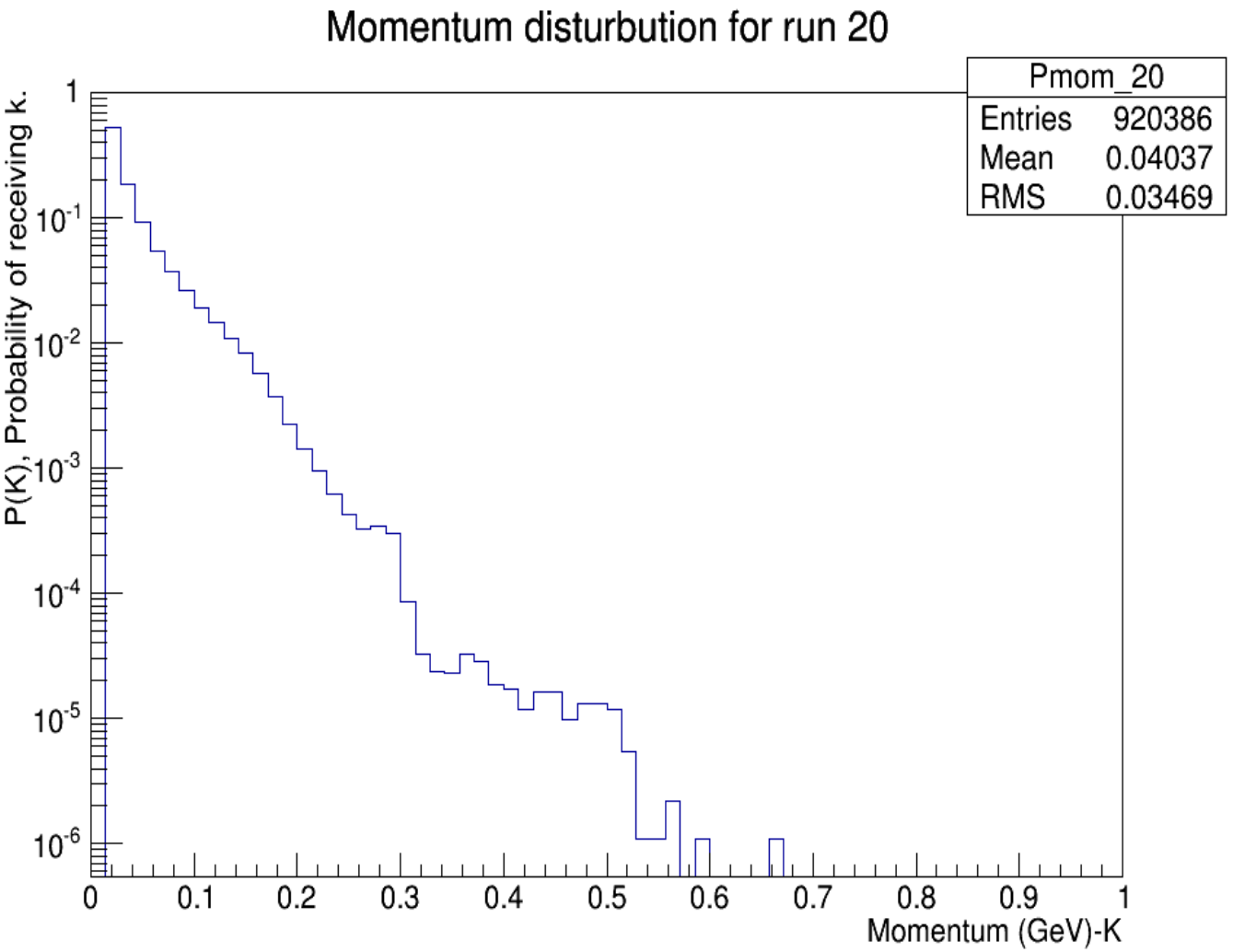

Run 10
P(K), Probability of receiving k.
Momentum (1/fm^2)-K
Run 10
Run 10 Low momentum
Run 10 High momentum
Run 0 Low momentum
Run 0 High momentum


Run 10
Momentum (1/fm^2)-K
P(K), Probability of receiving k.

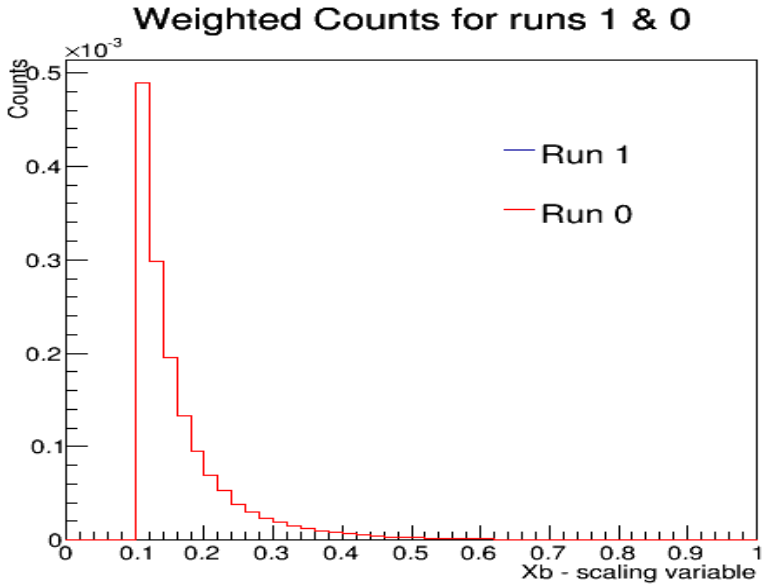

Momentum disturbution for run 10
Pmom_10
Entries 893373
Mean 0.1424
RMS 0.1878
P(K), Probability of receiving k.
Momentum (GeV)-K

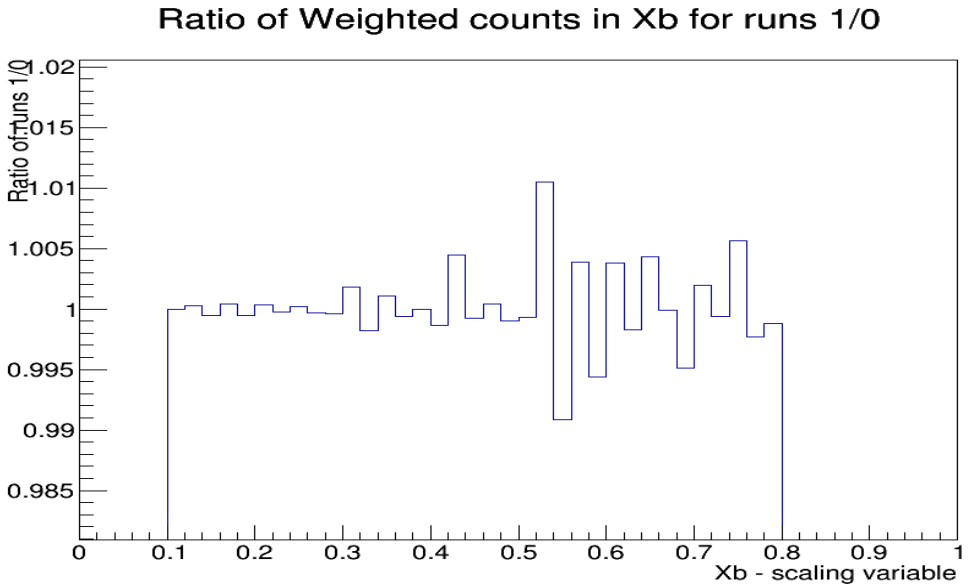

Run 20
P(K), Probability of receiving k.
Run 20
Run 20 Low momentum
Run 20 High momentum
Run 0 Low momentum
Run 0 High momentum
Momentum (1/fm^2)-K

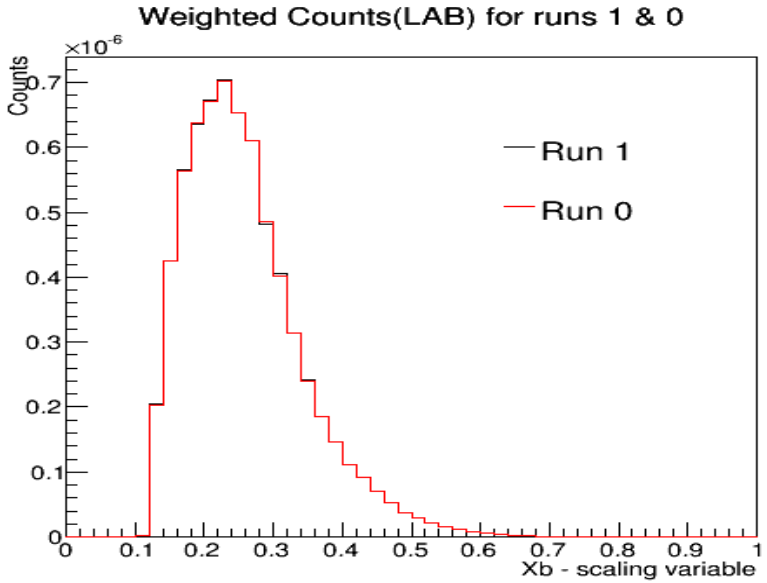

Run 20
Momentum (1/fm^2)-K
P(K), Probability of receiving k.

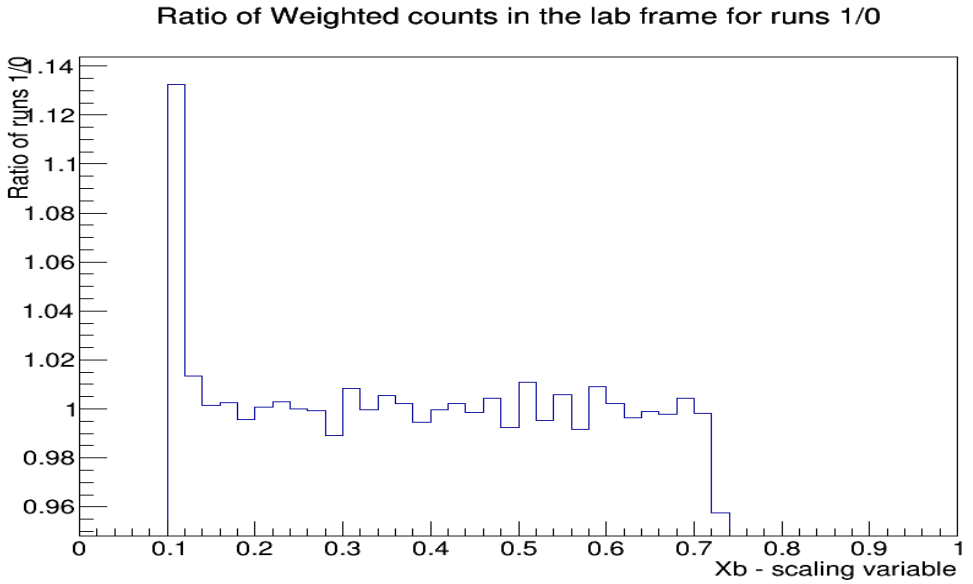

Momentum disturbution for run 20
Pmom_20
Entries 920386
Mean 0.04037
RMS 0.03469
P(K), Probability of receiving k.
Momentum (GeV)-K

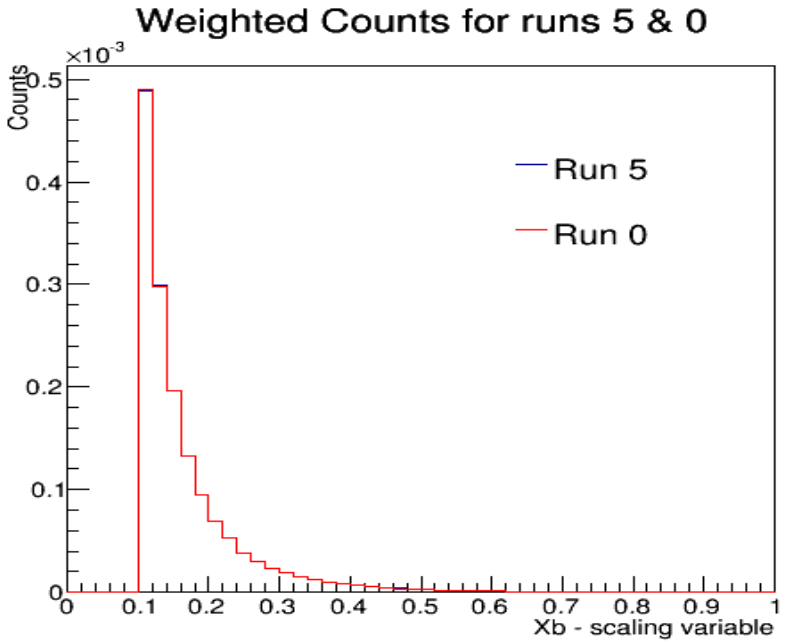
Ratios for counts in Xb for 2 runs in the rest frame(top) Lab frame(bottom);

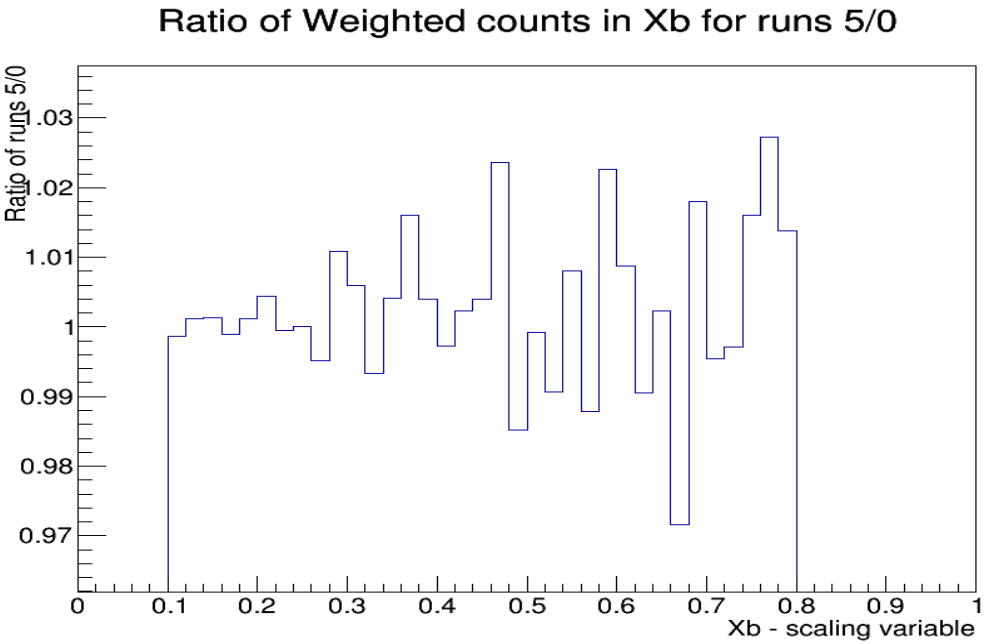


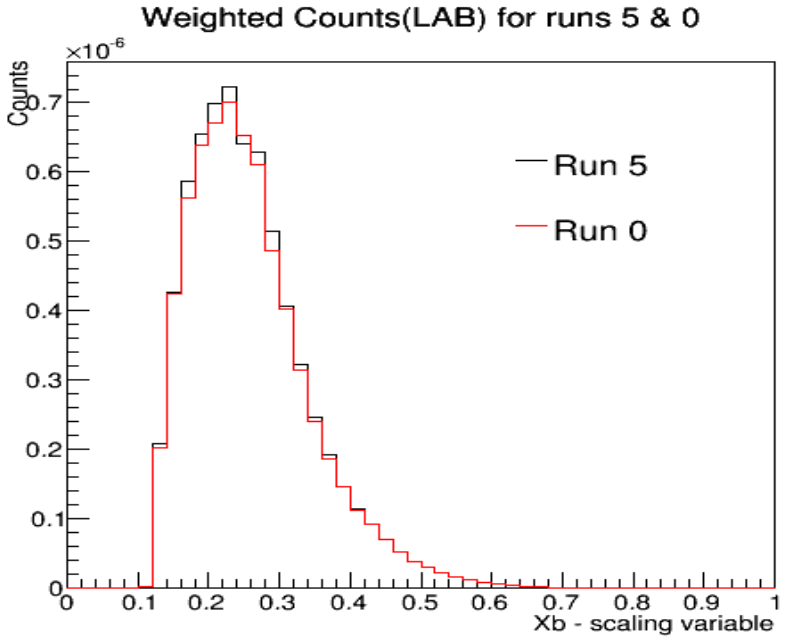


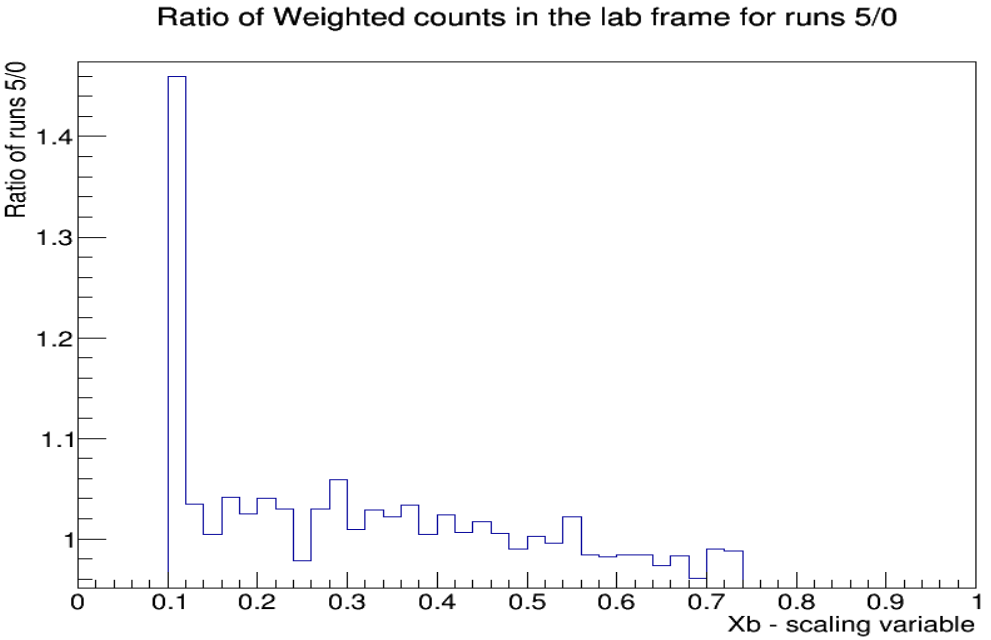


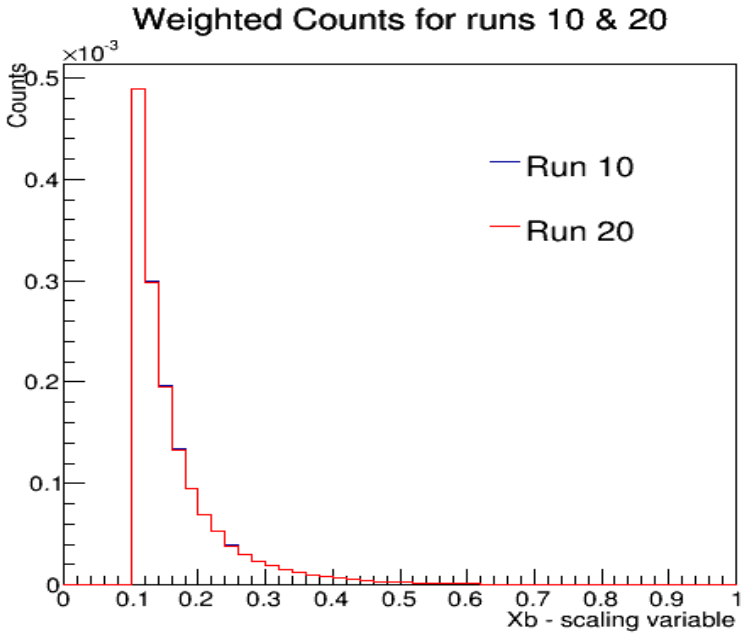


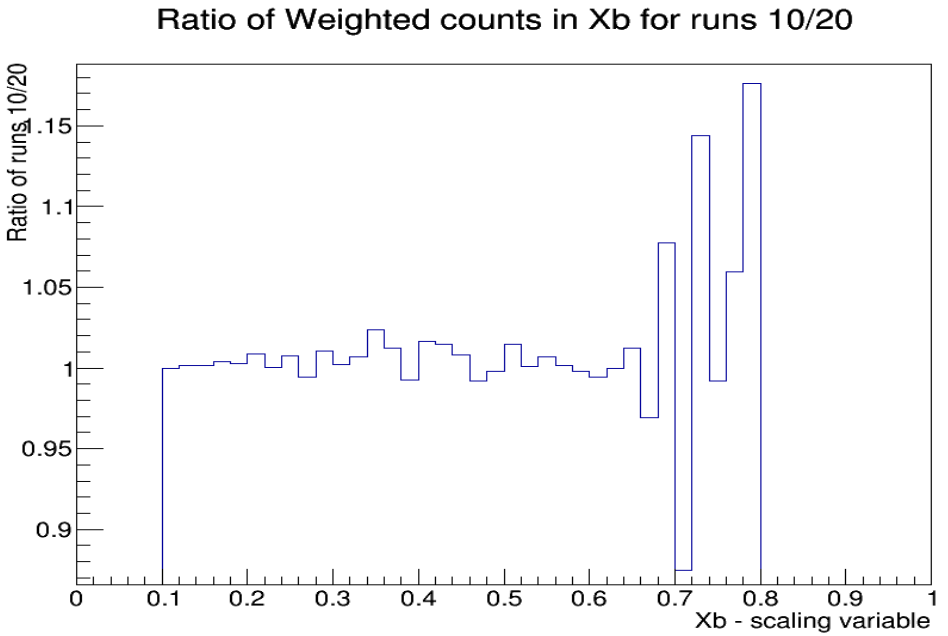

Weighted Counts for runs 5 & 0
×10^-3
Counts
Run 5
Run 0
Xb - scaling variable

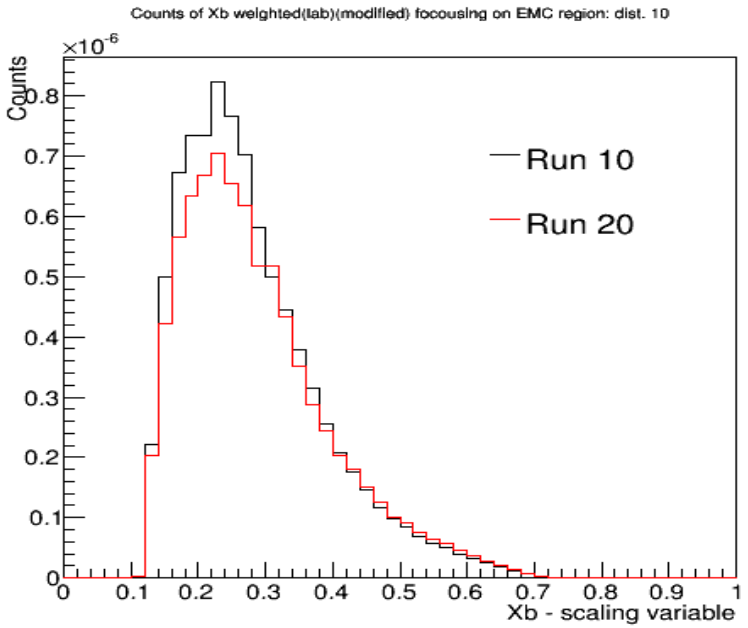

Ratio of Weighted counts in Xb for runs 5/0
Ratio of runs 5/0
Xb - scaling variable

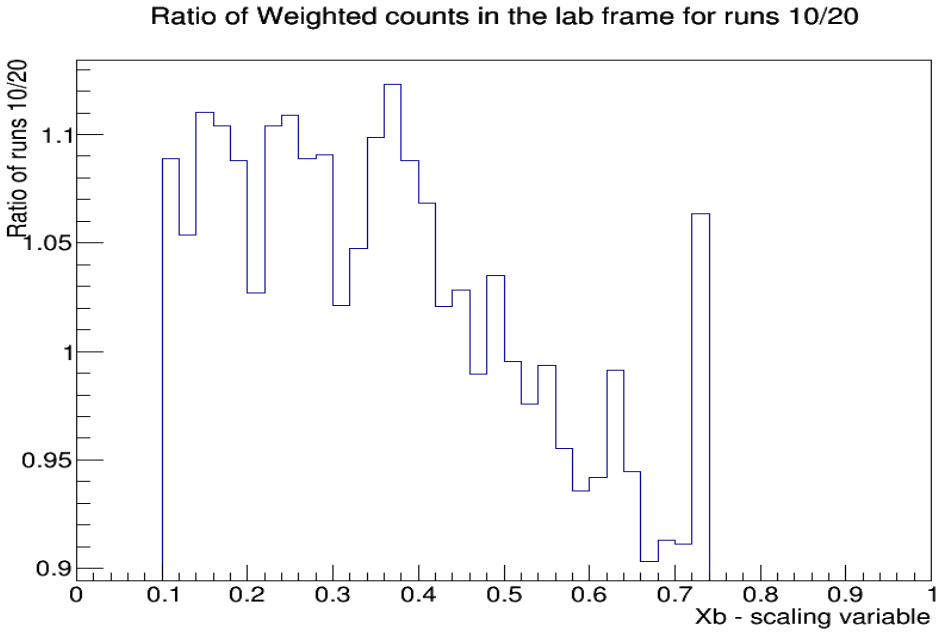

Weighted Counts(LAB) for runs 5 & 0
×10^-6
Counts
Run 5
Run 0
Xb - scaling variable


Ratio of Weighted counts in the lab frame for runs 5/0
Ratio of runs 5/0
Xb - scaling variable


Weighted Counts for runs 10 & 20
Counts
×10^-3
Run 10
Run 20
Xb - scaling variable


Ratio of Weighted counts in Xb for runs 10/20
Ratio of runs 10/20
Xb - scaling variable


Counts of Xb weighted(lab)(modified) focousing on EMC region: dist. 10
Counts
×10^-6
Run 10
Run 20
Xb - scaling variable


Ratio of Weighted counts in the lab frame for runs 10/20
Ratio of runs 10/20
Xb - scaling variable