

# **Forward Tracking QA Summary**

**Run 22 pp500 GeV**

**Dataset: Run 22 pp @  $\sqrt{s} = 500$  GeV**

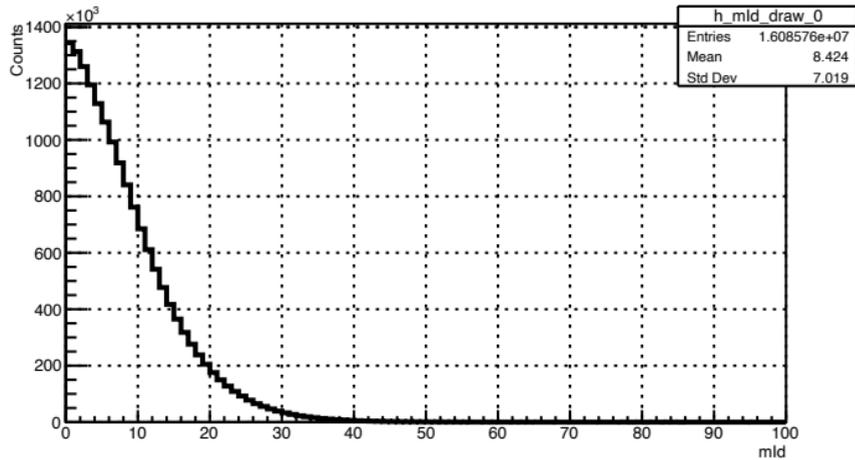
General Cuts:

- **Track status > 0 (Kalman fit converged)**

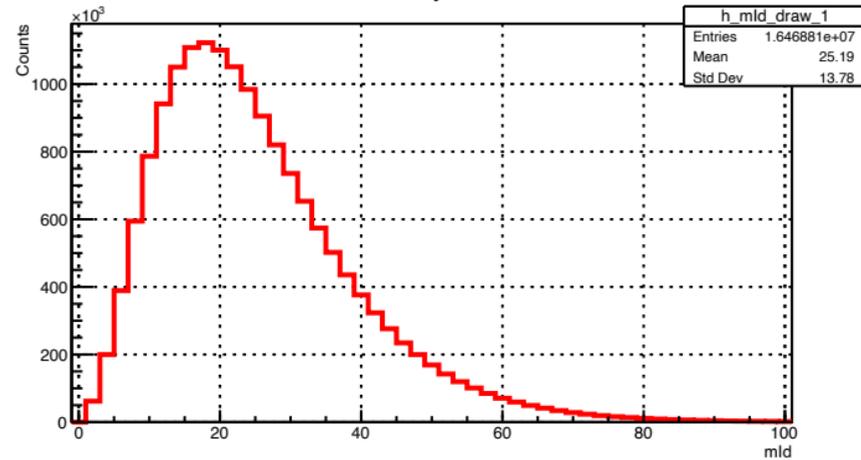
Cuts applied for kinematic plots ( $p_T$ ,  $\eta$ ,  $\phi$ ):

- **Primary Vertex  $|Z| < 50$  cm**
- **nBTOFMatch  $\geq 2$**

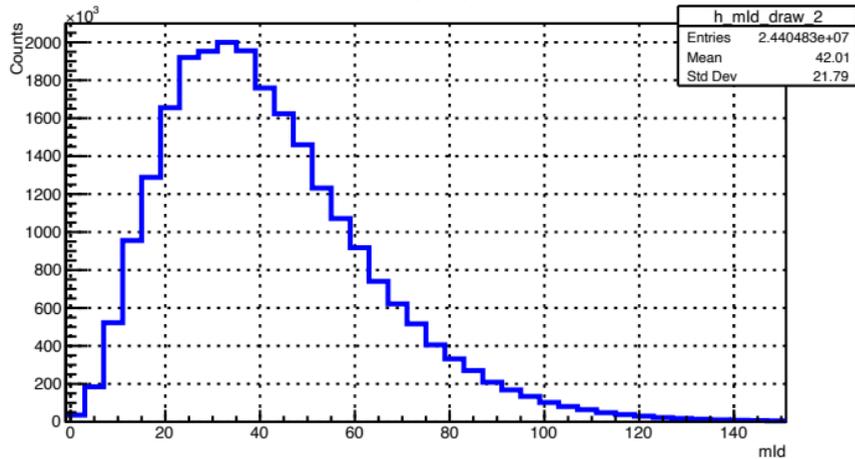
Global: mld



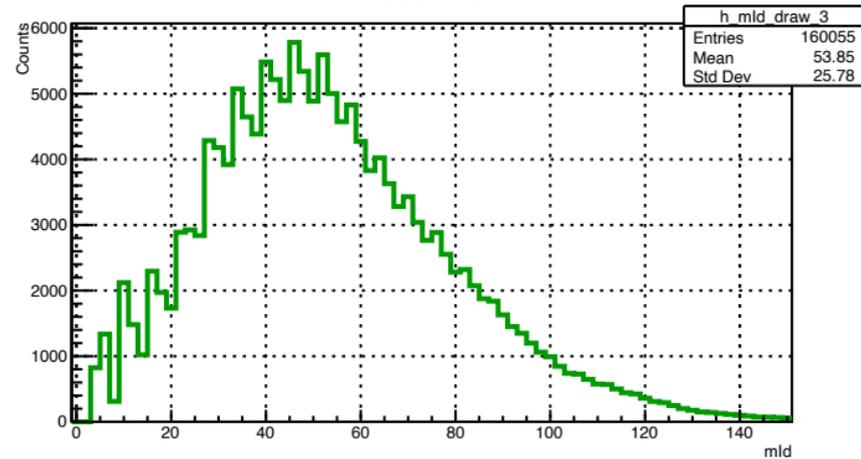
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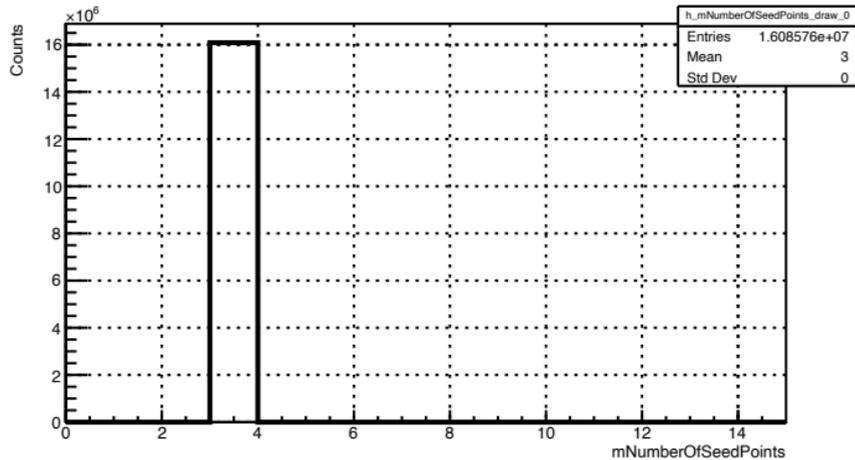
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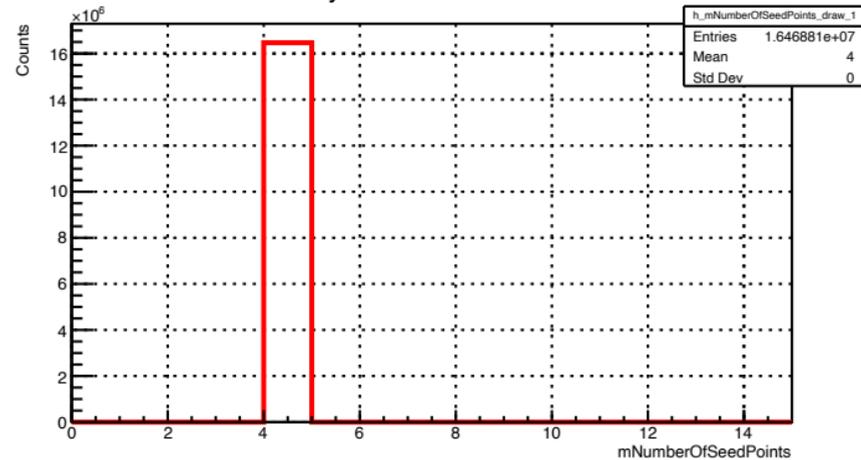
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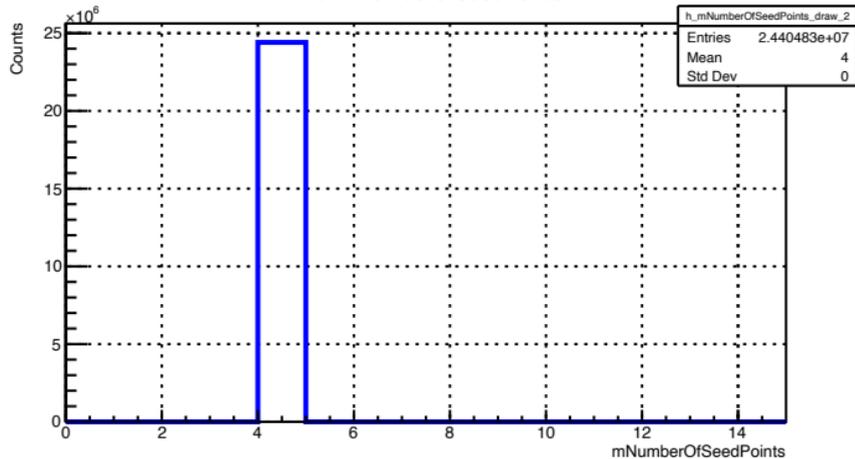
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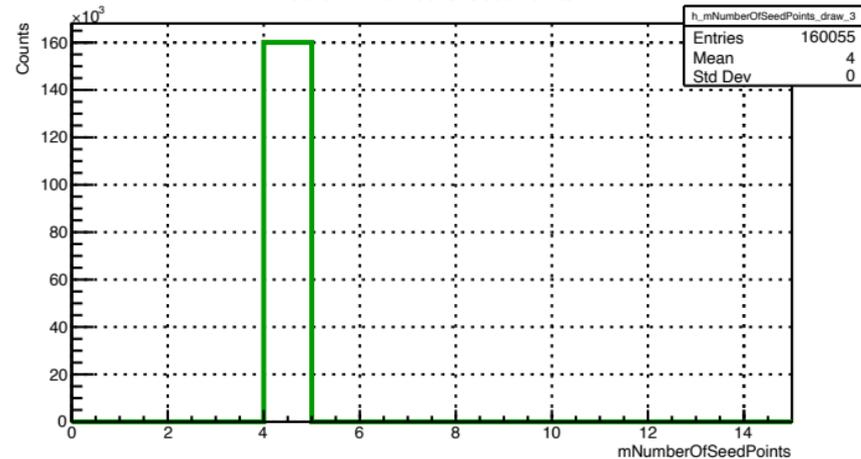
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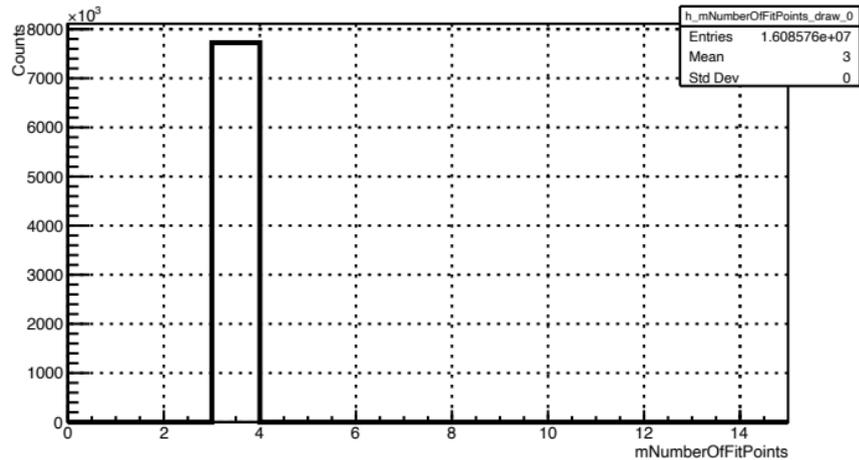
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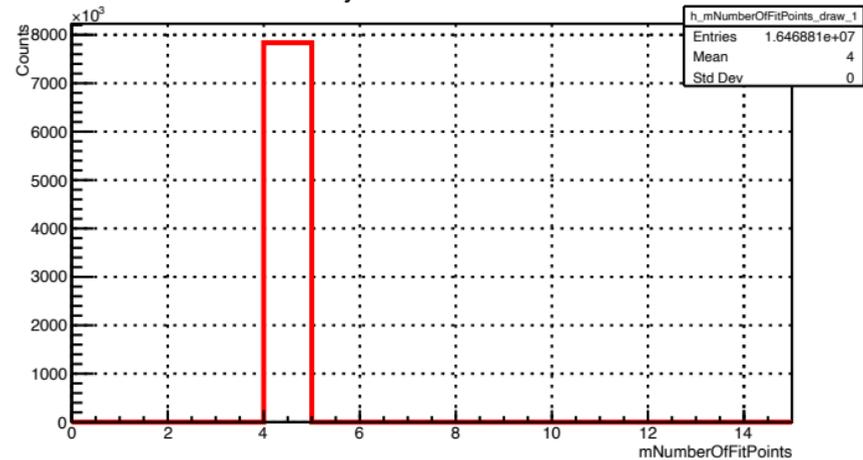
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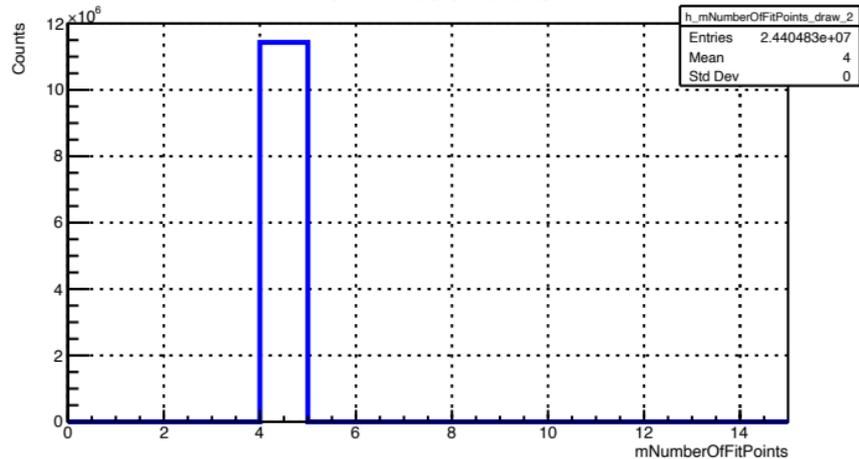
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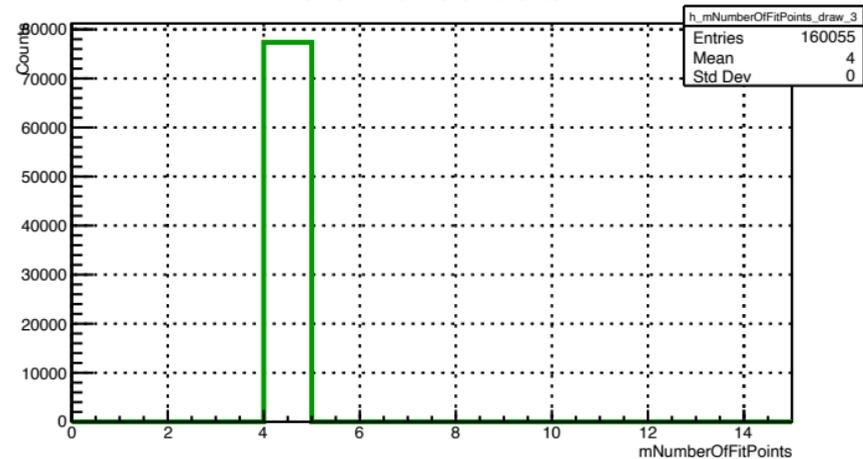
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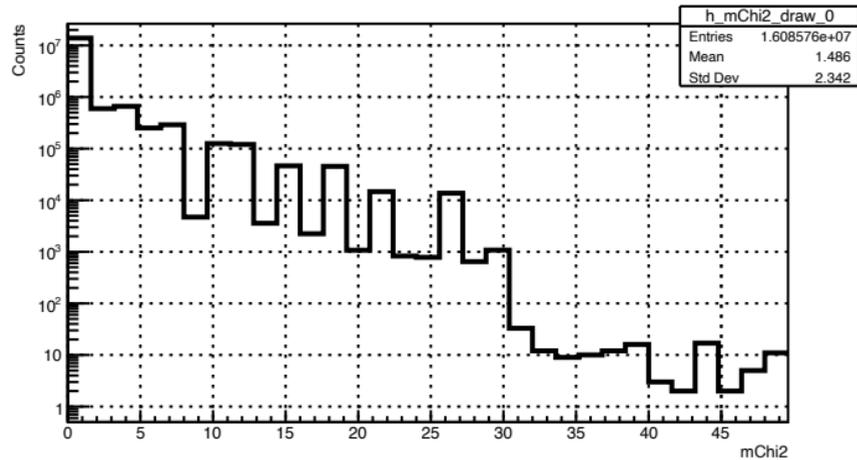
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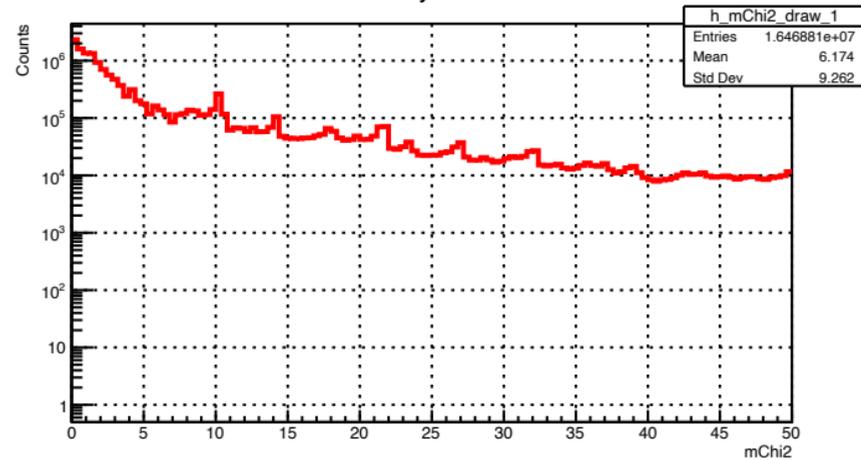
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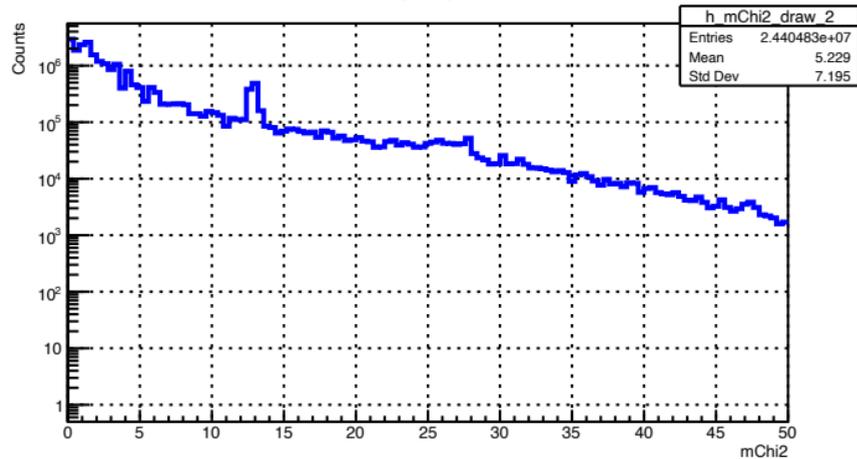
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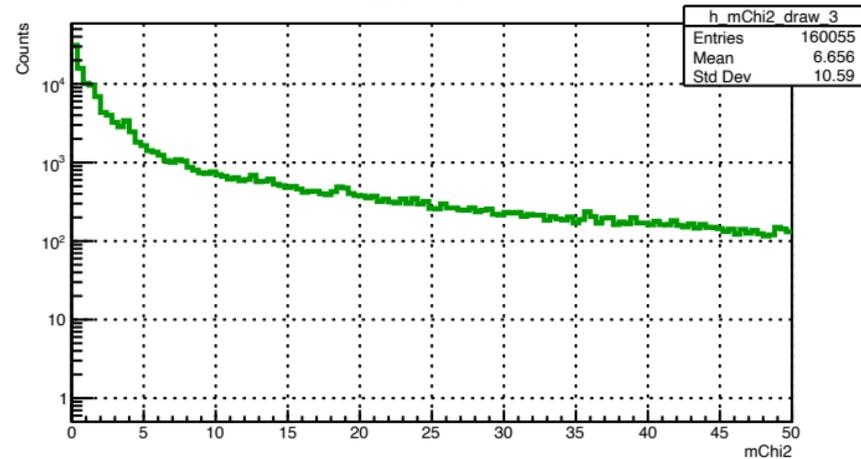
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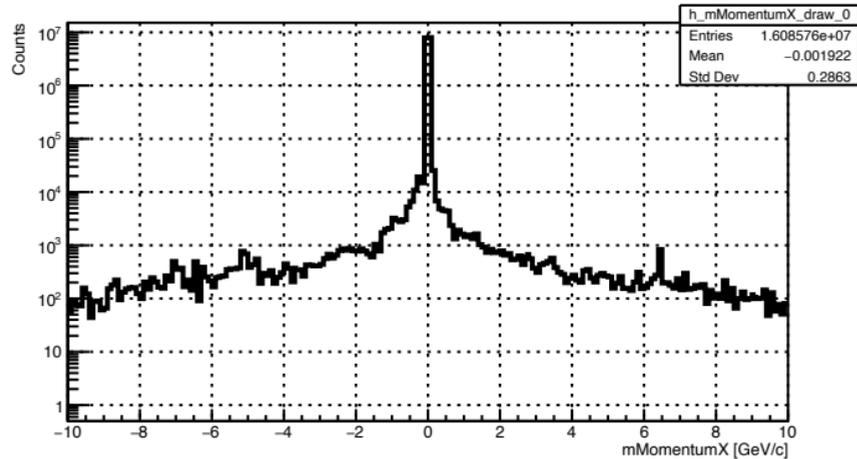
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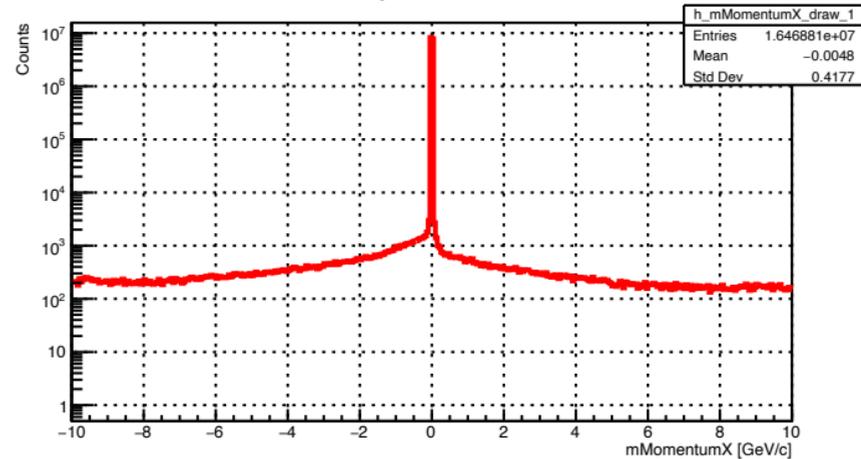
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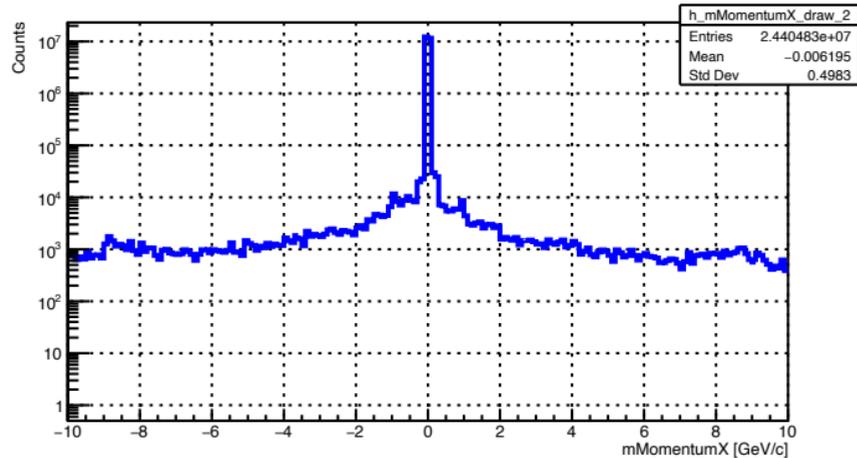
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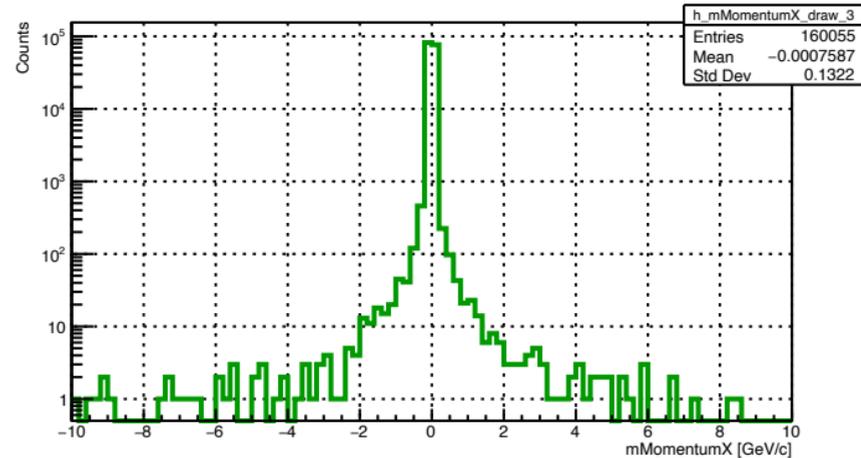
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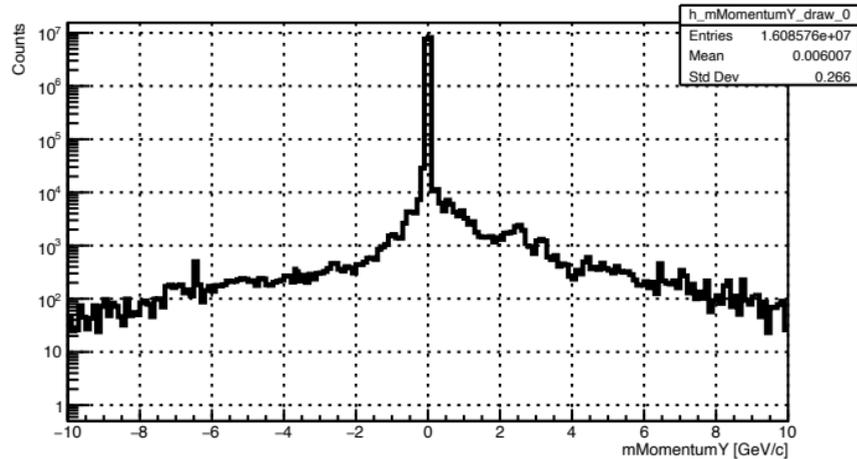
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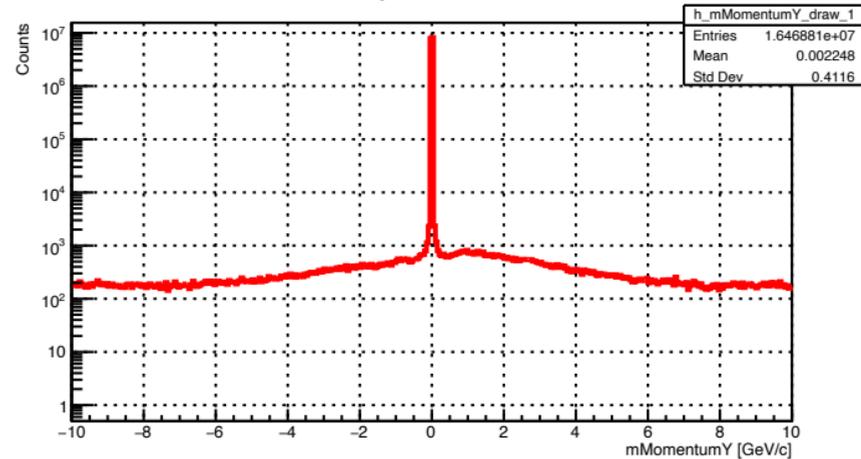
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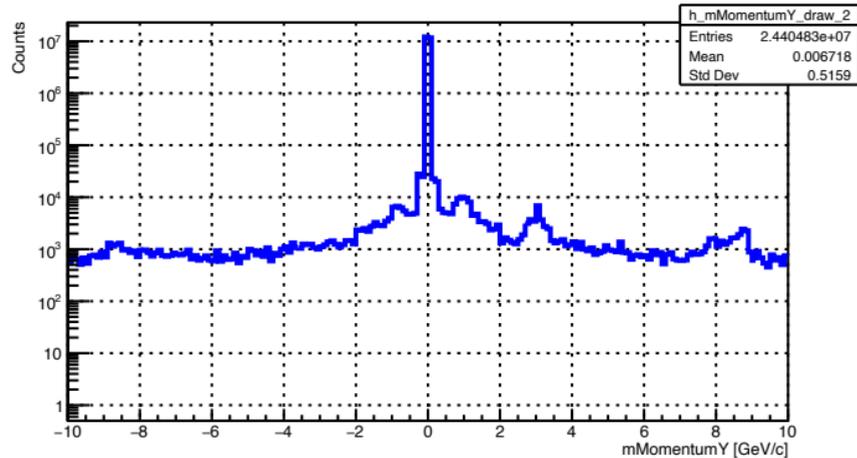
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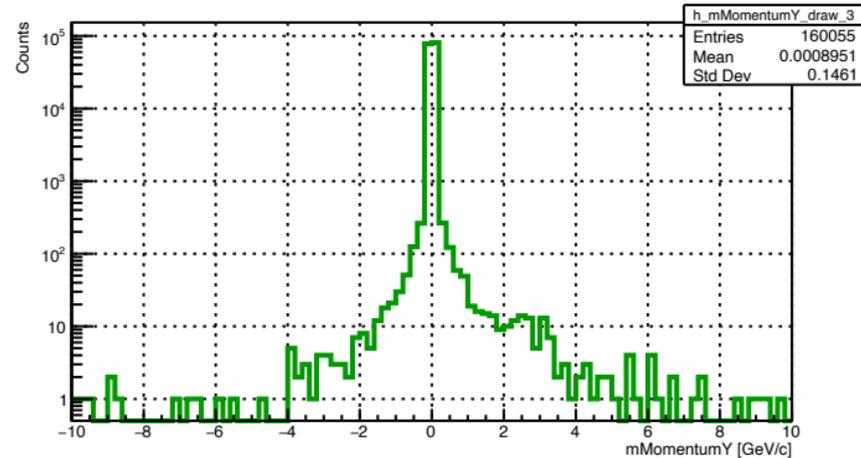
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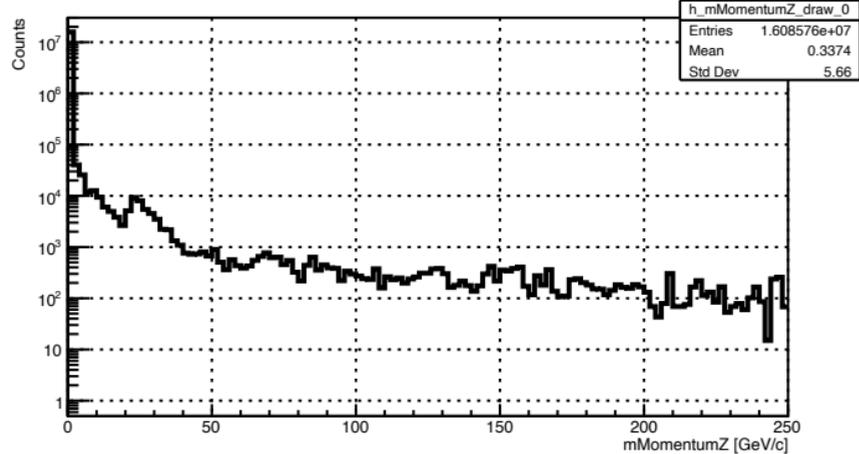
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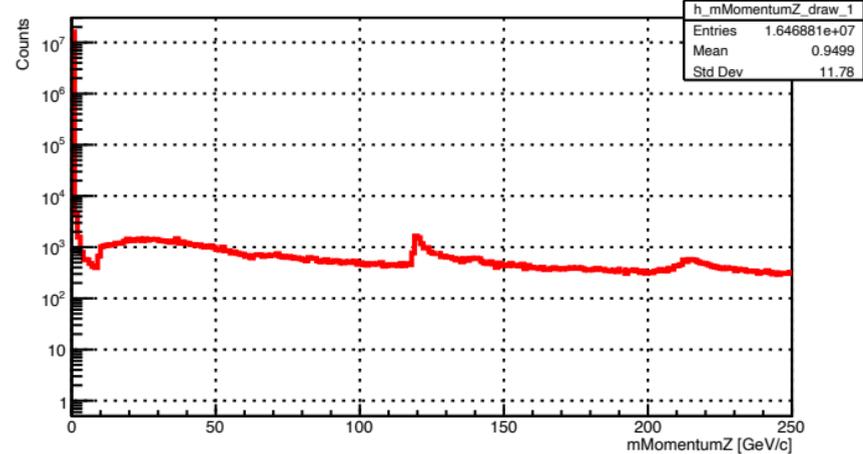
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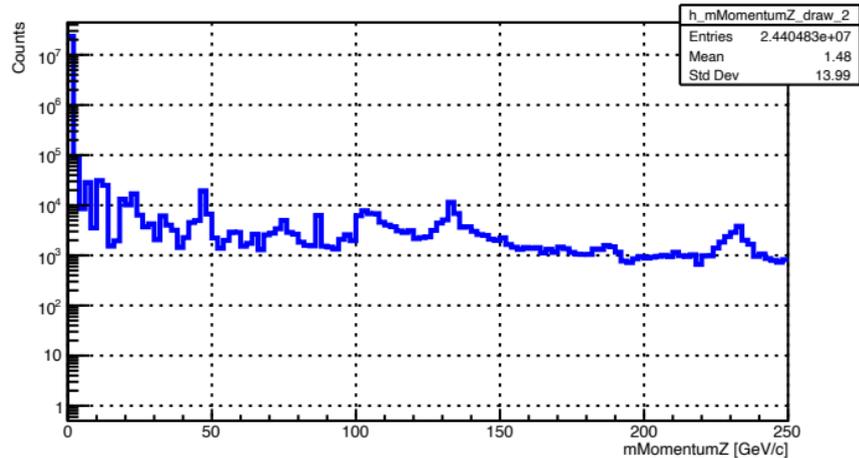
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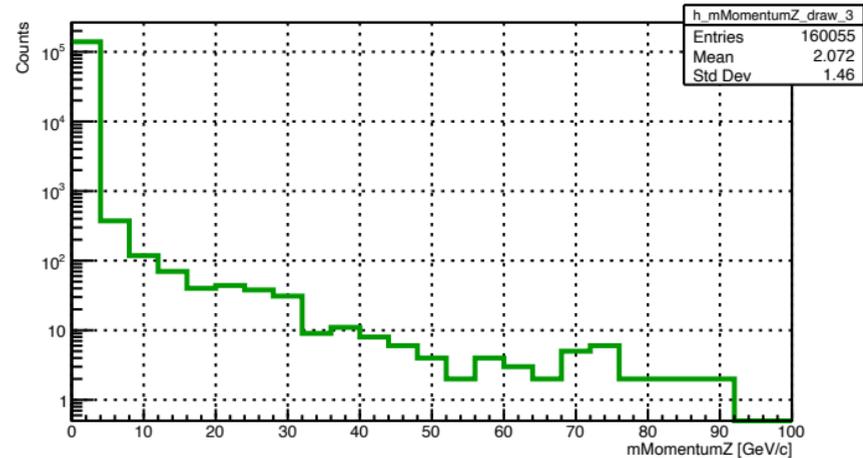
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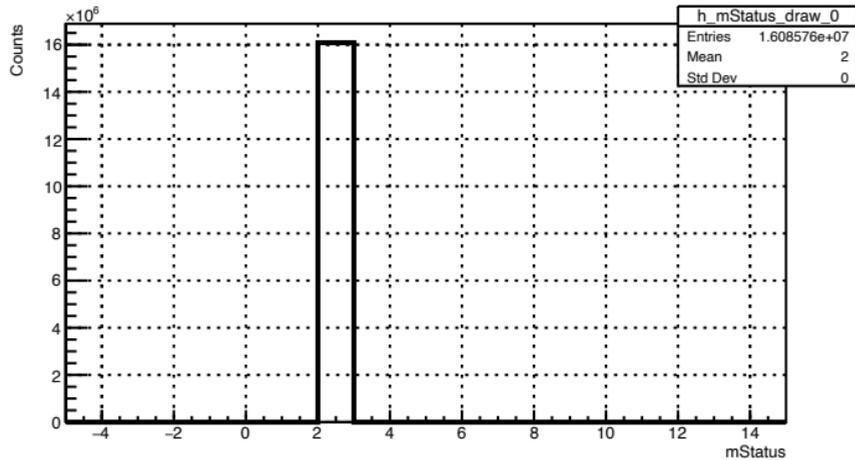
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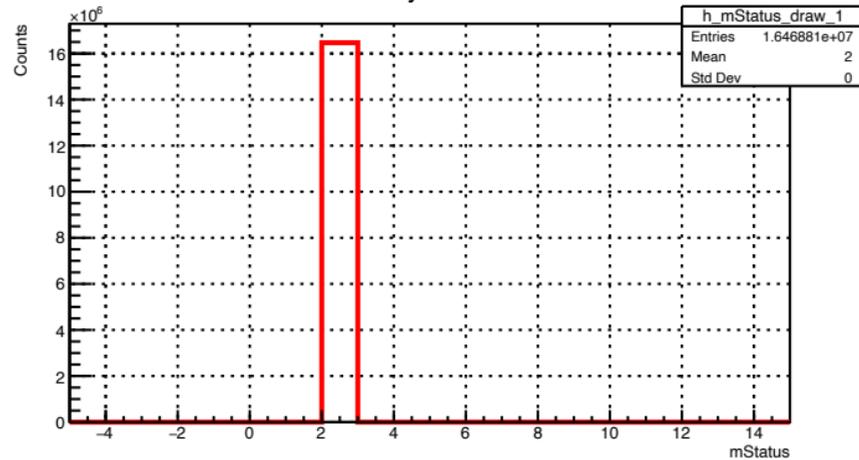
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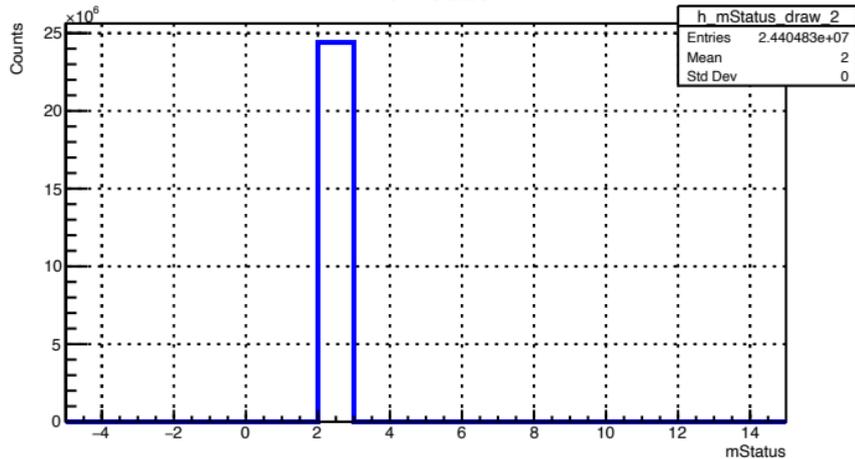
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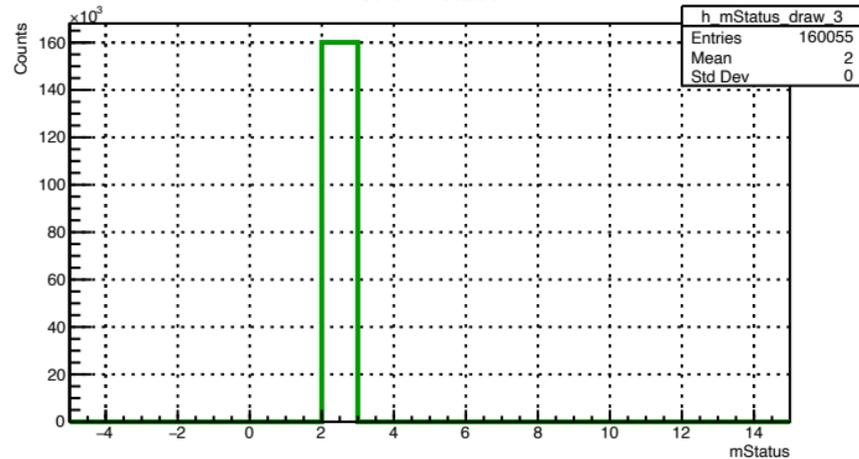
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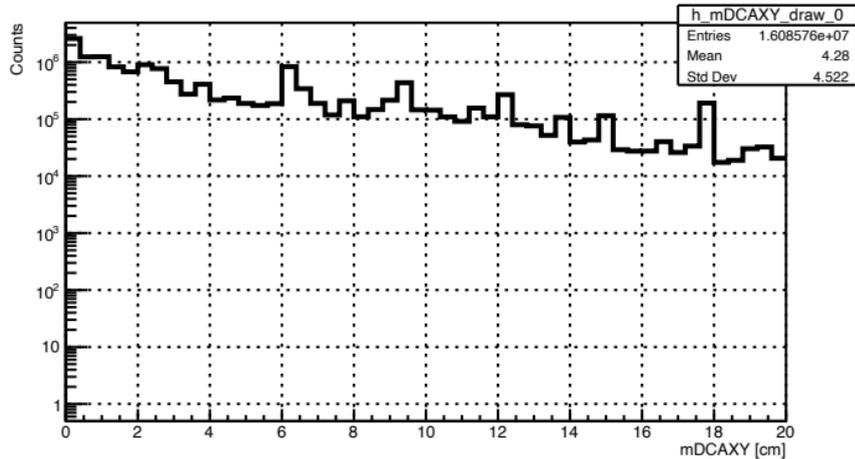
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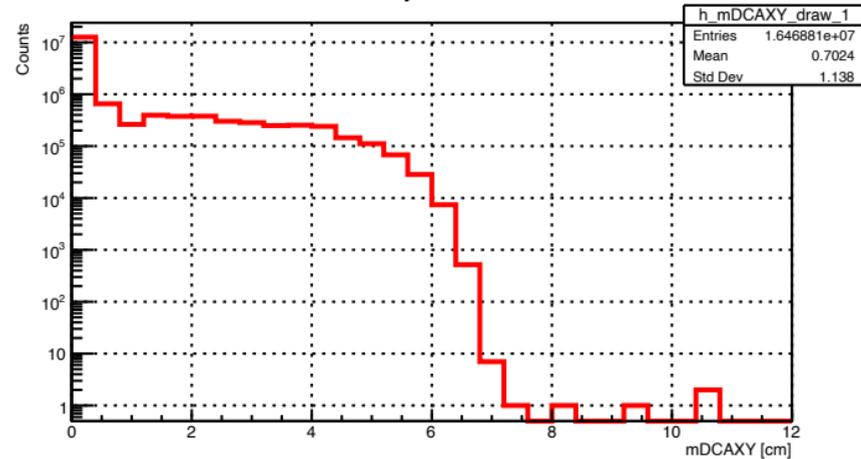
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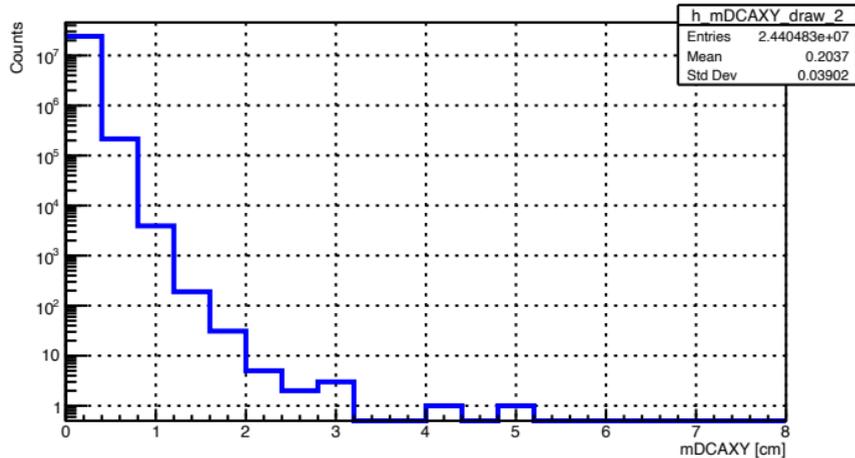
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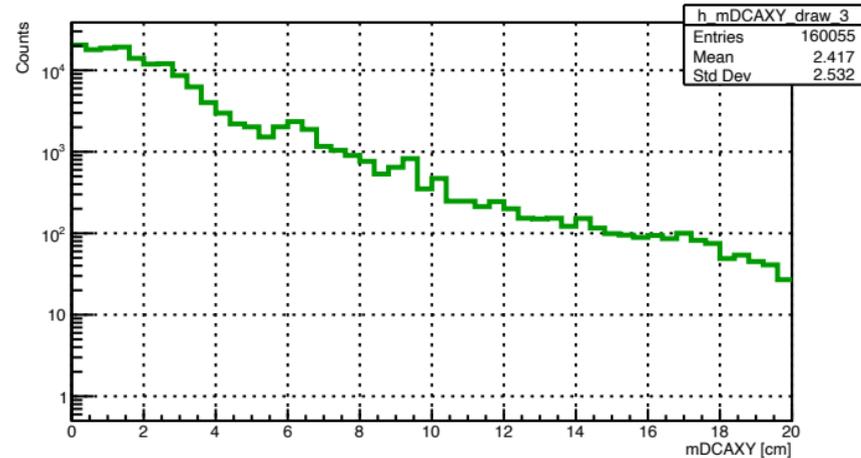
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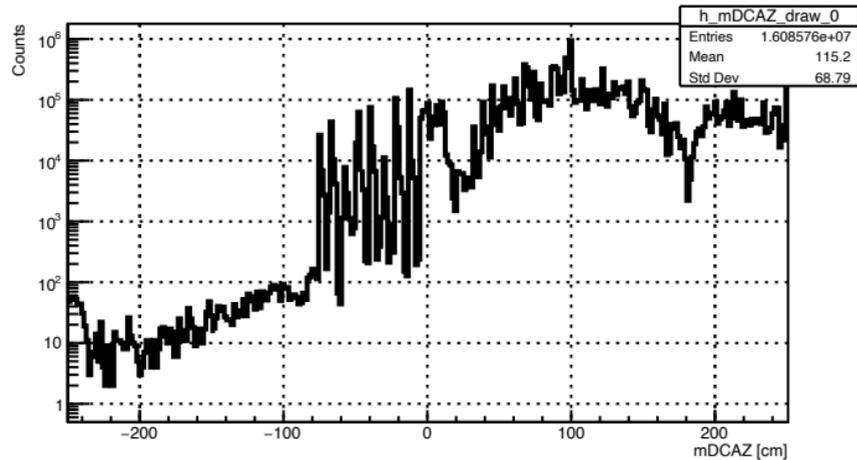
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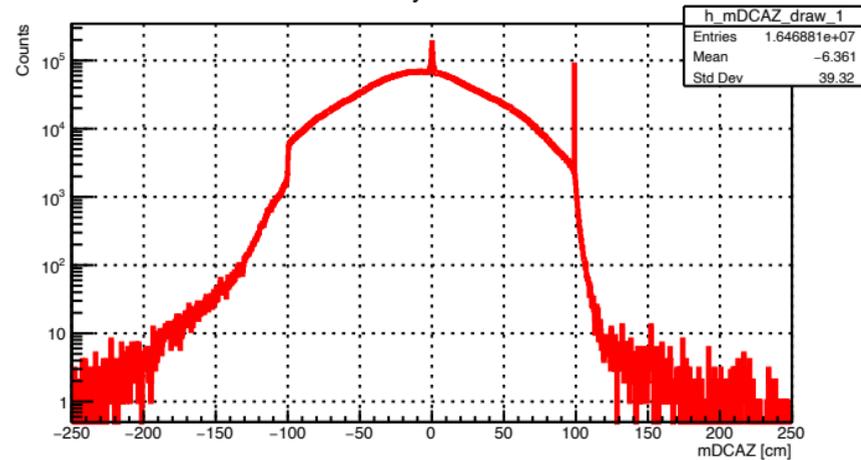
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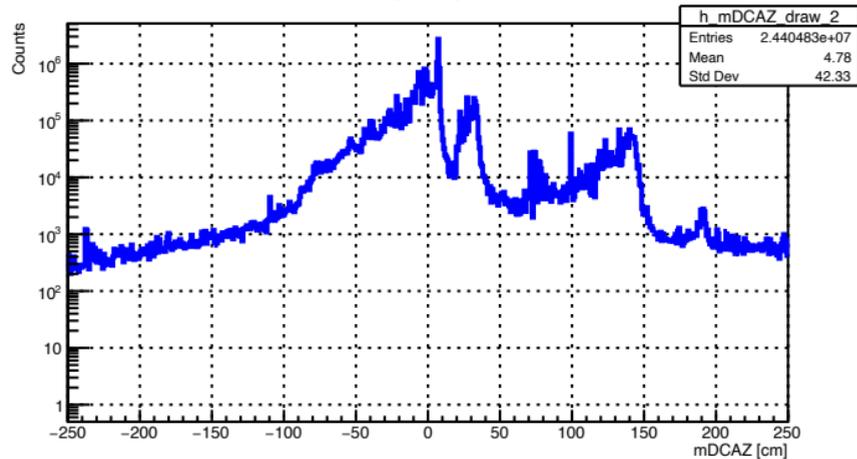
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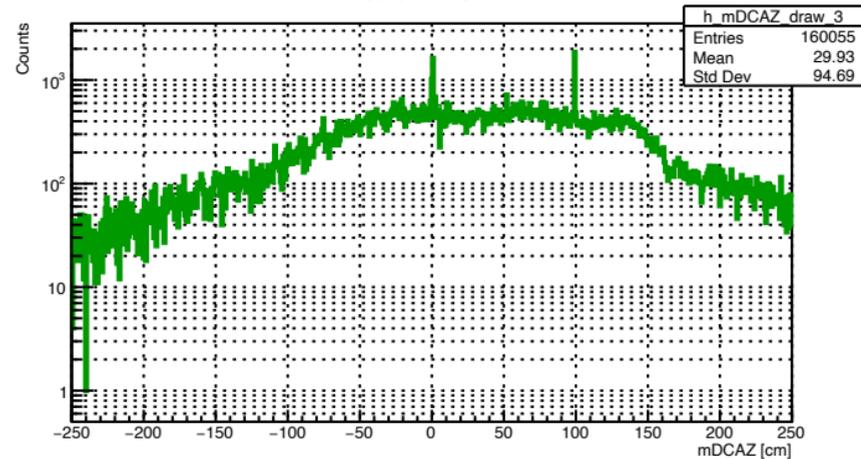
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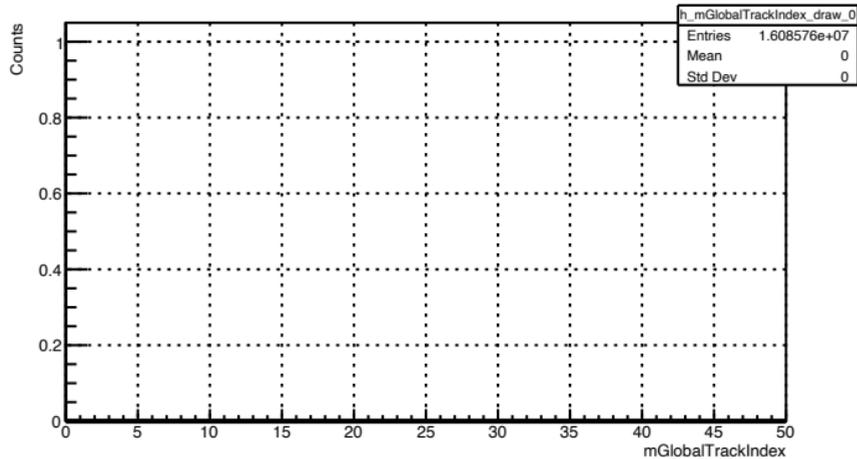
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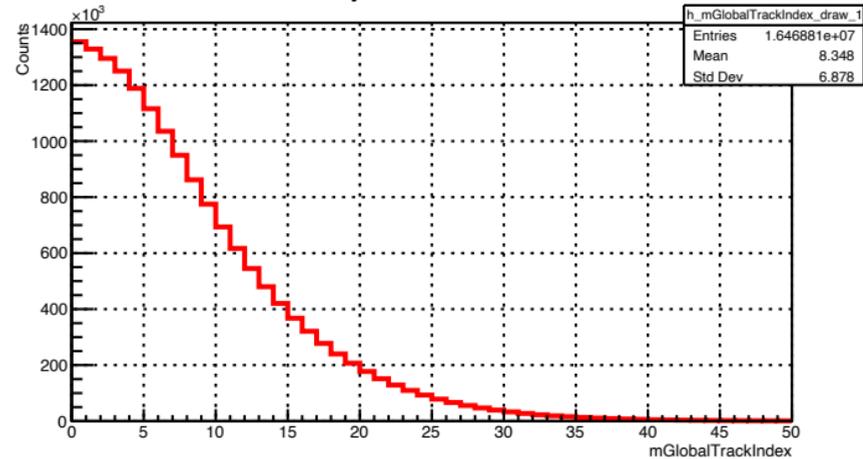
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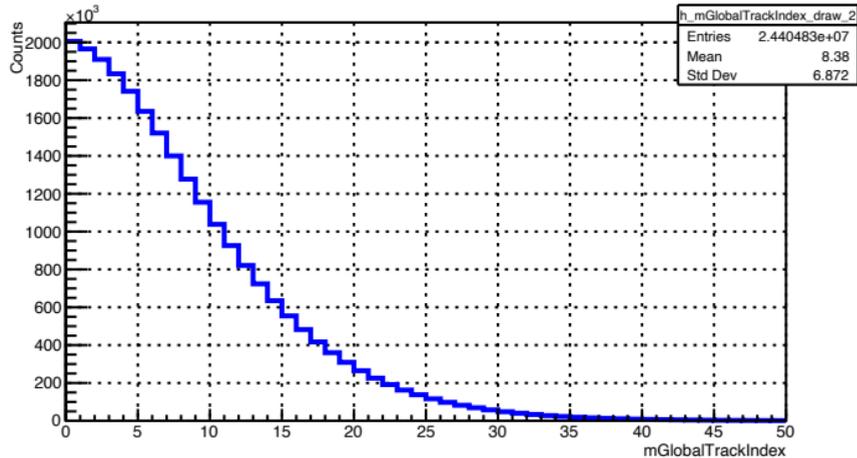
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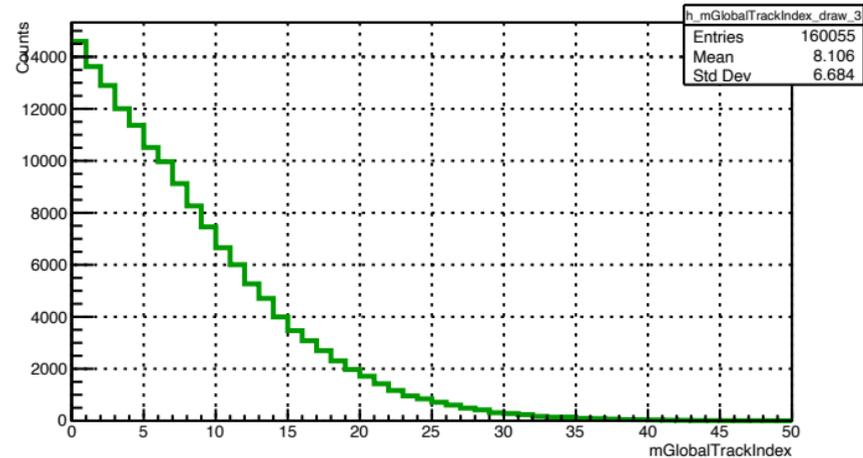
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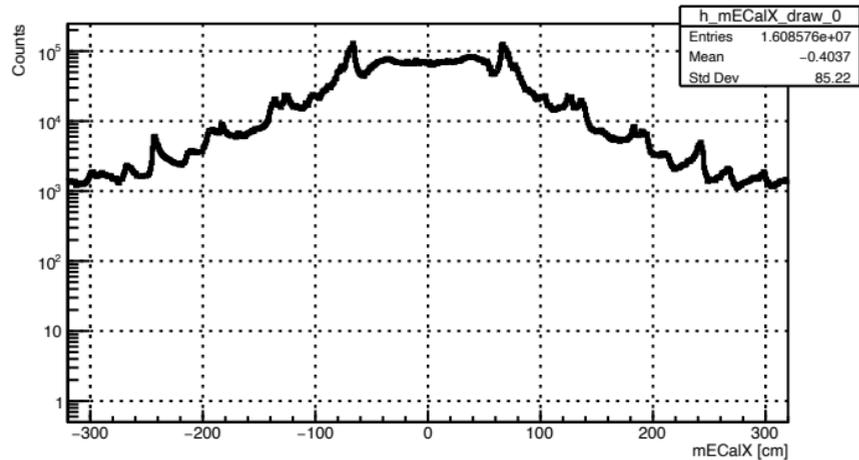
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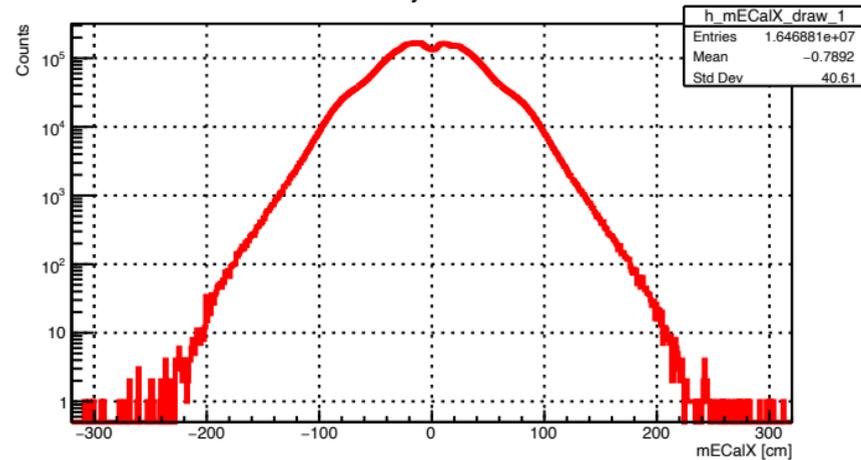
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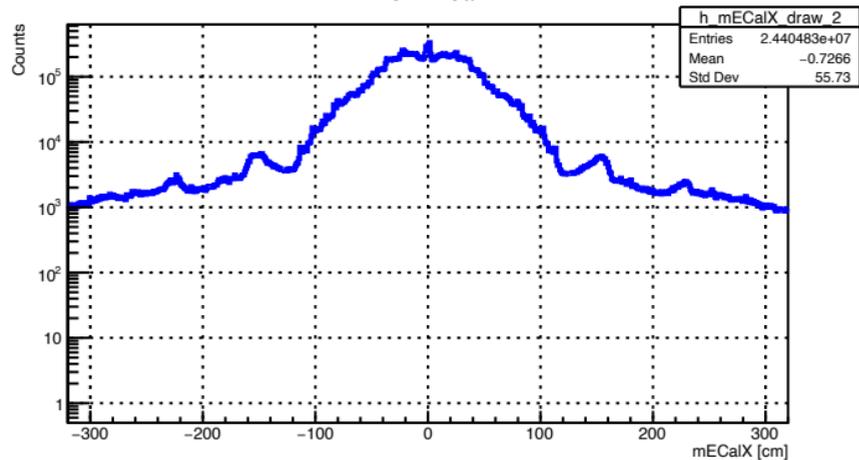
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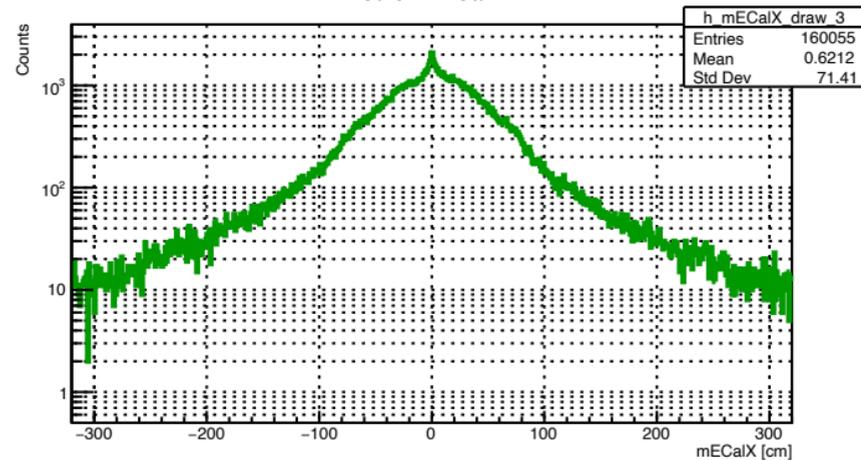
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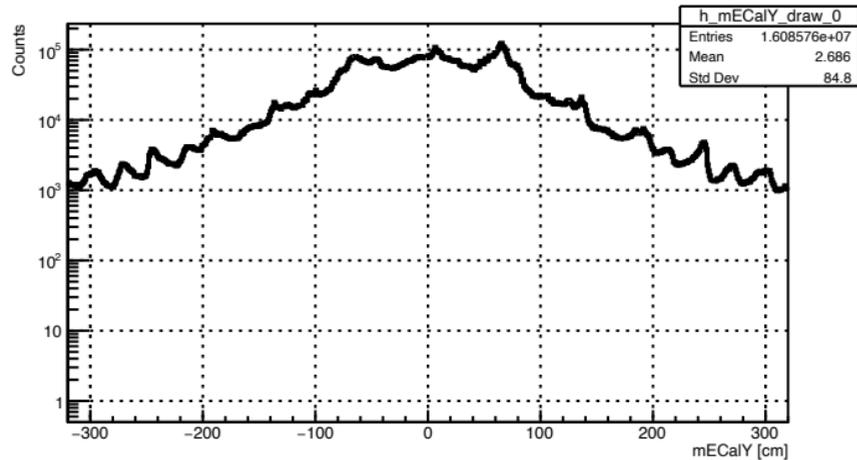
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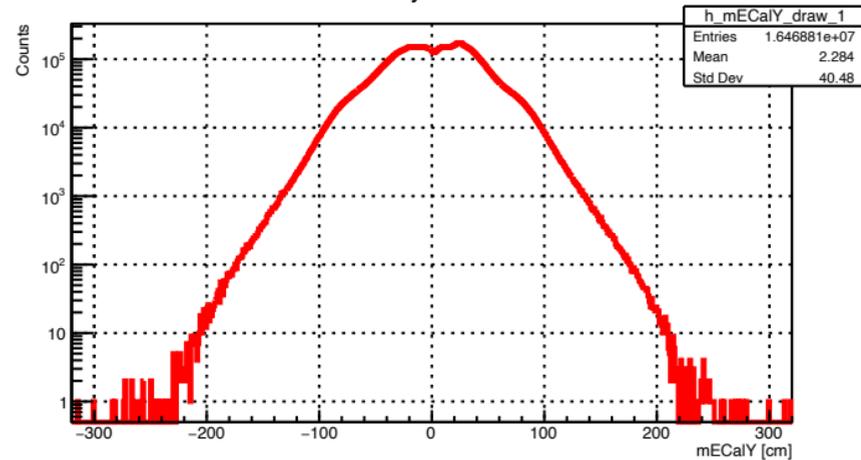
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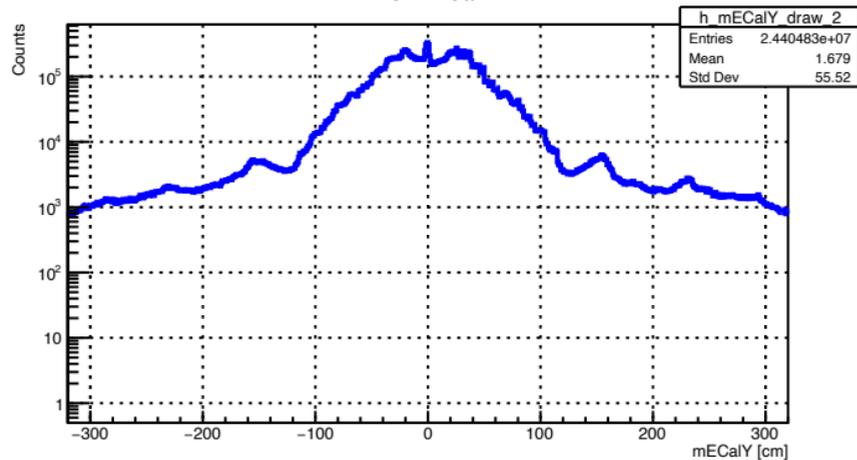
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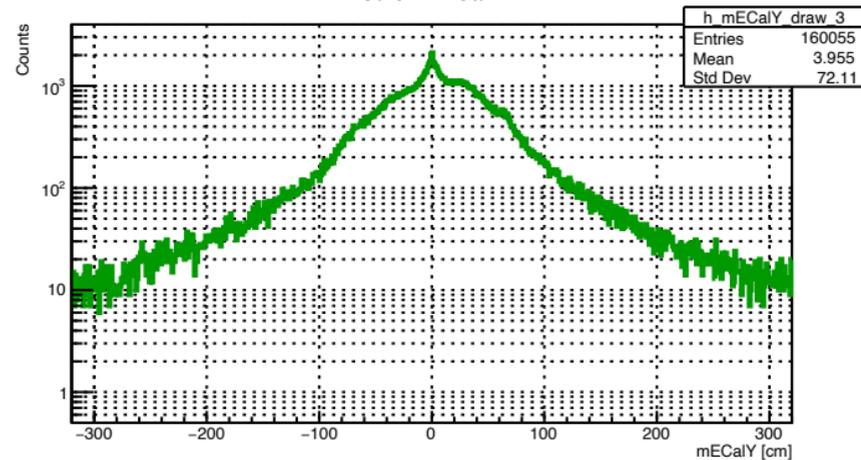
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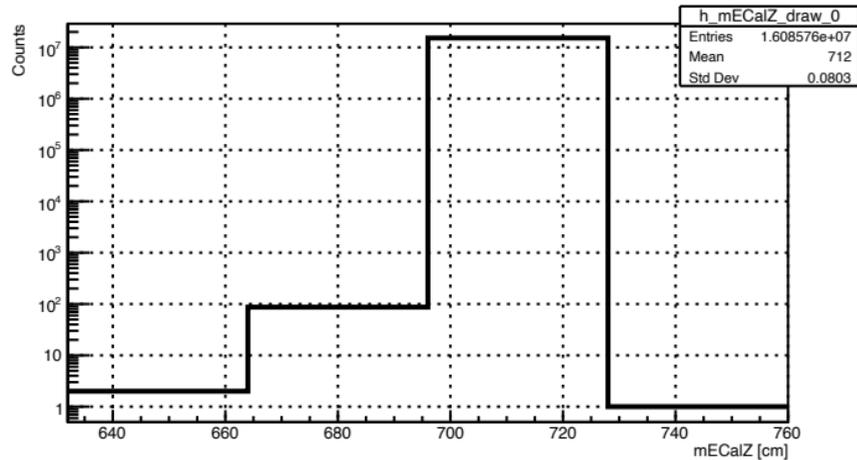
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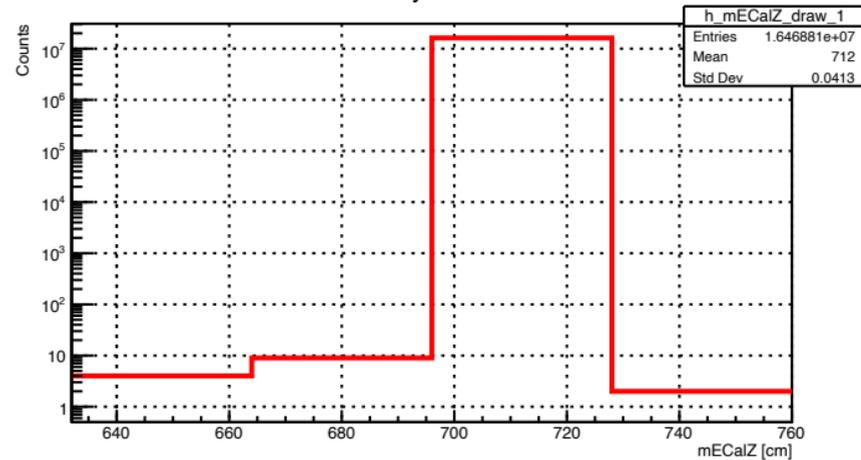
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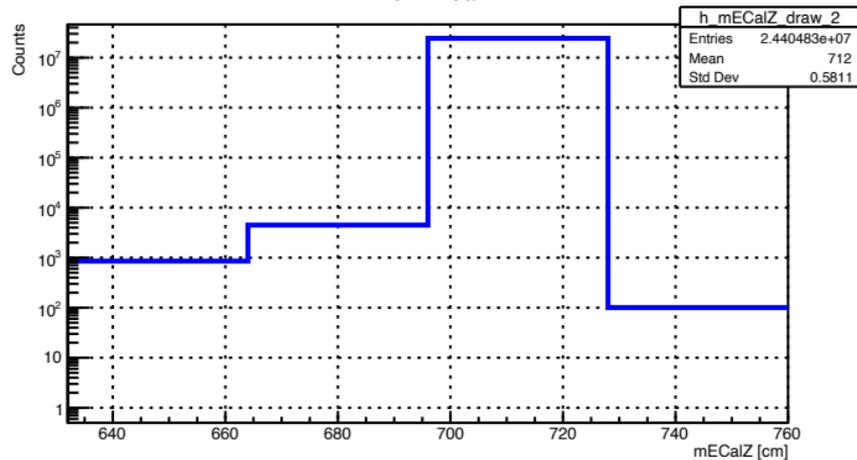
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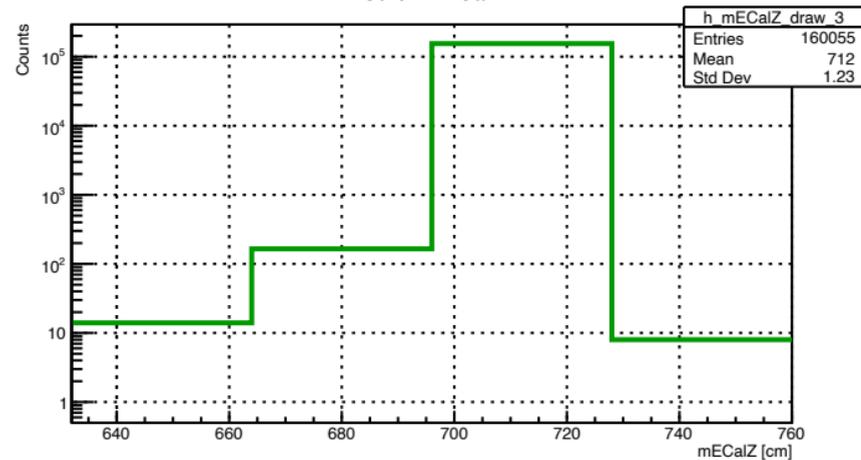
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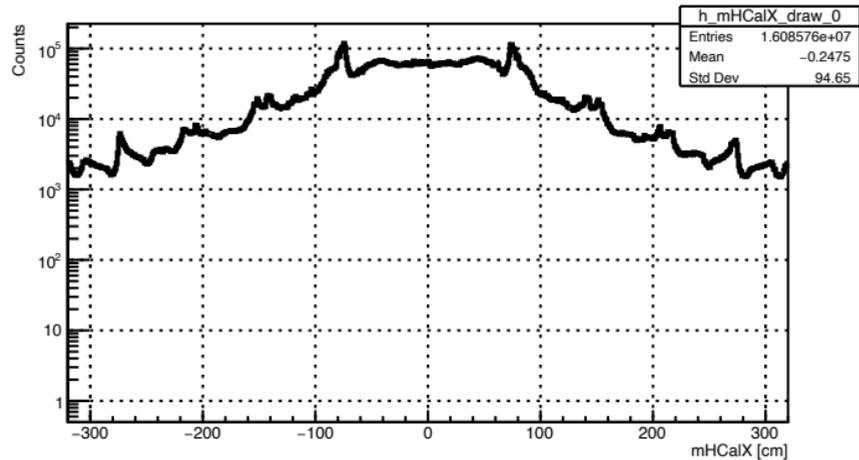
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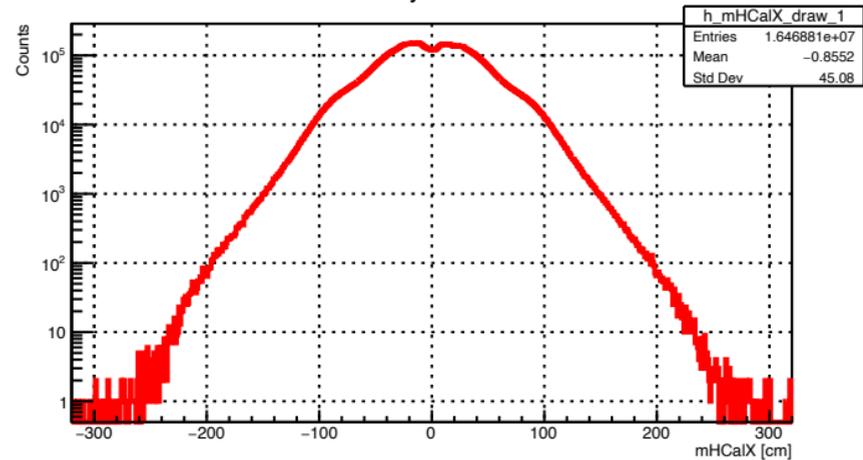
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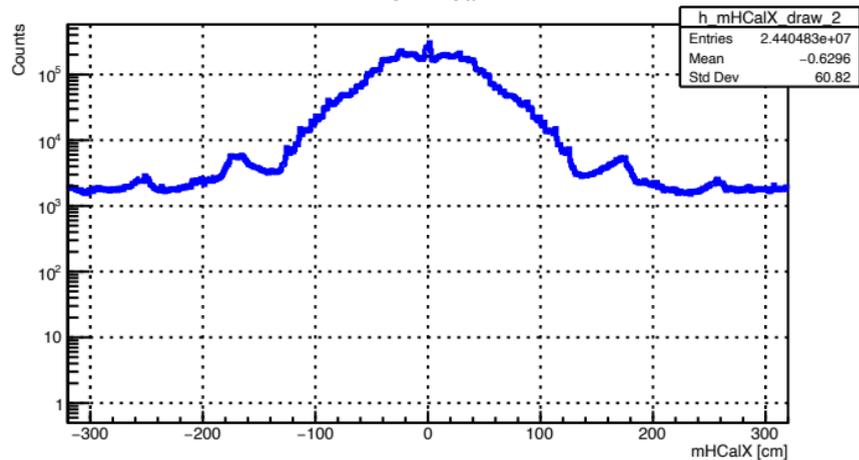
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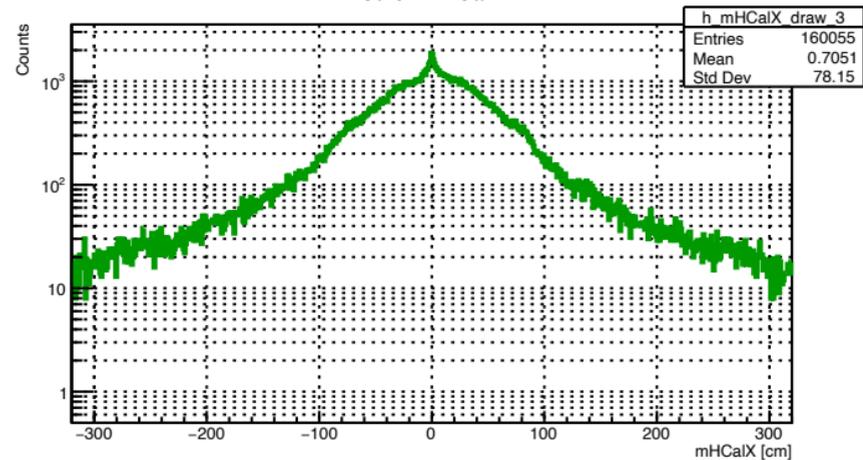
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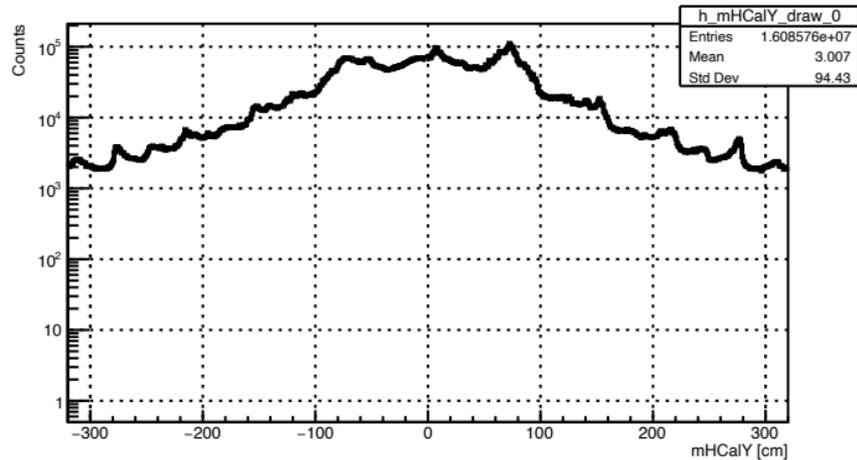
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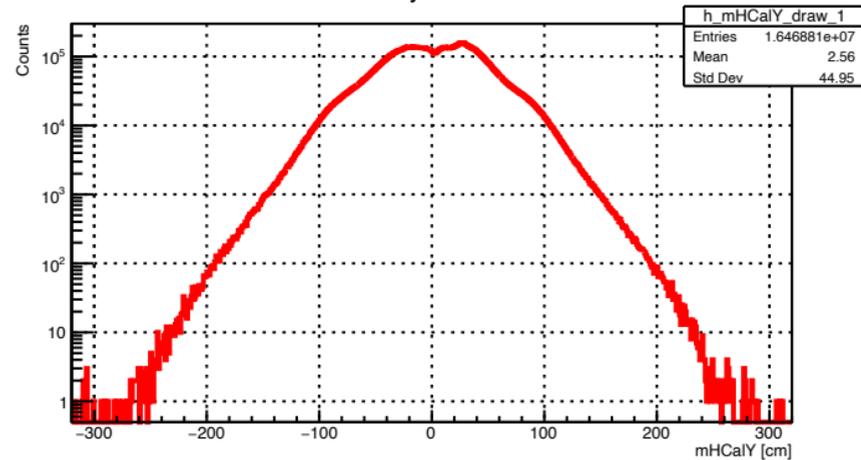
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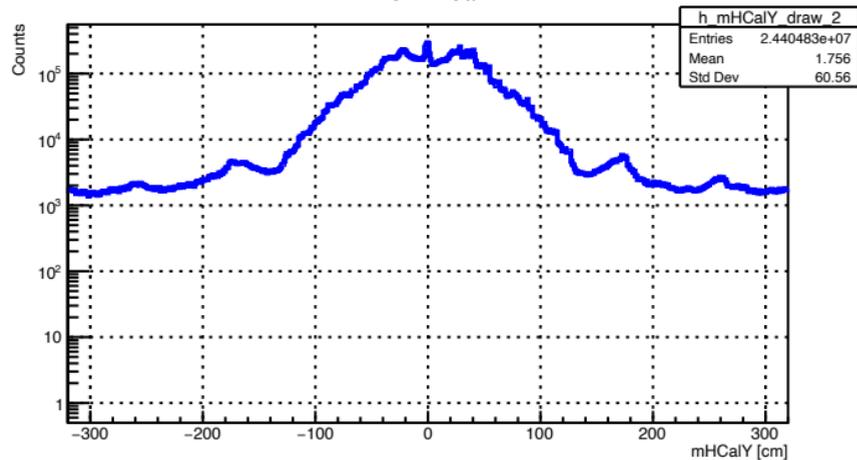
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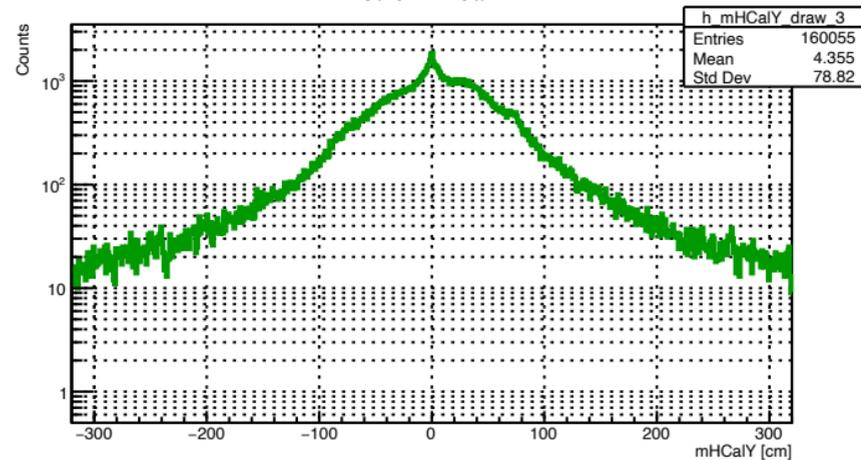
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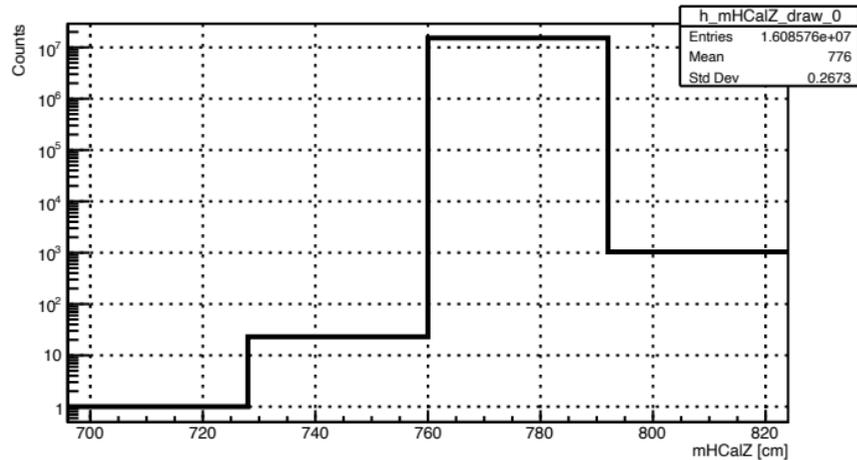
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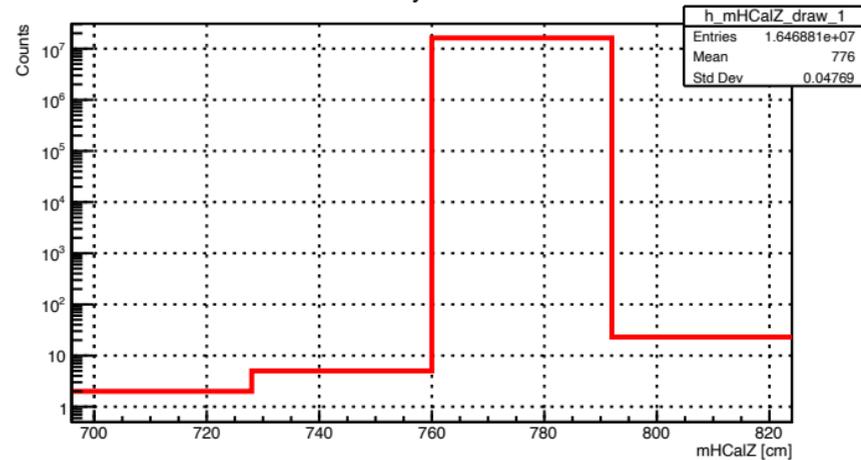
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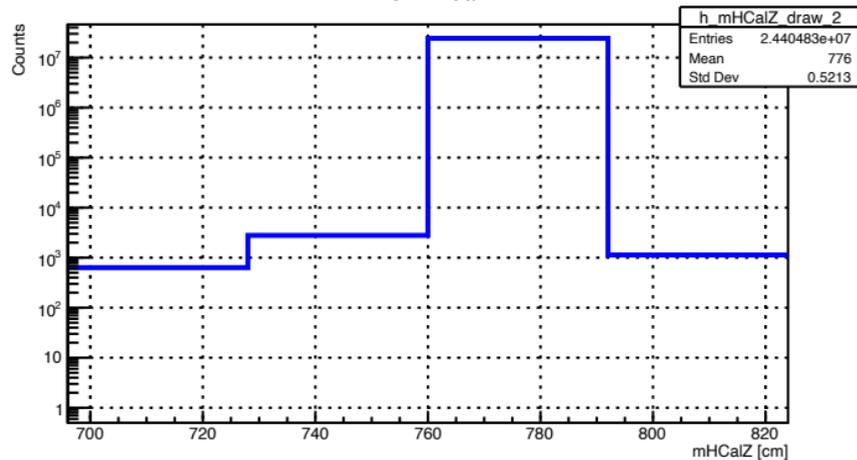
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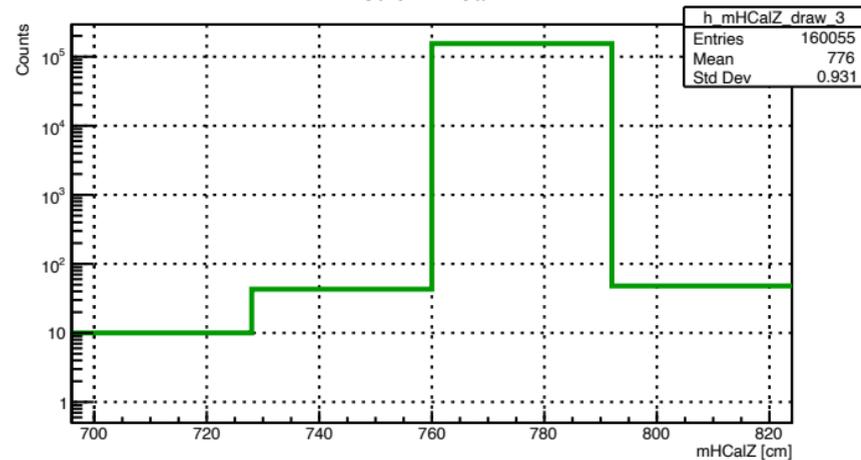
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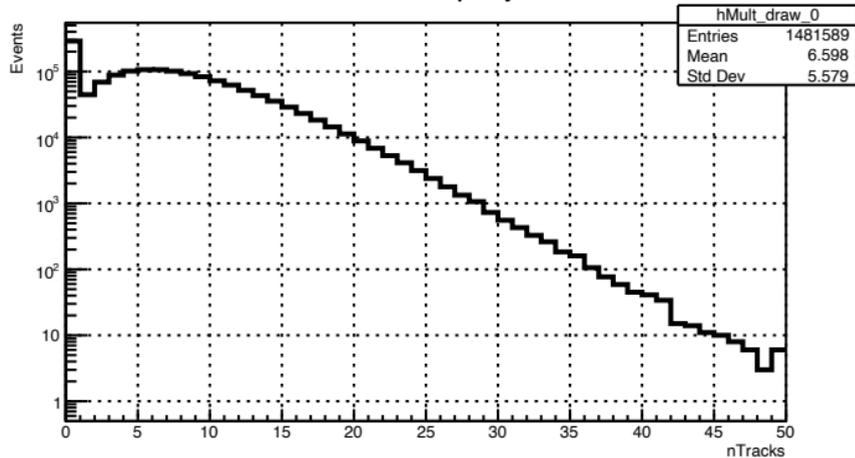
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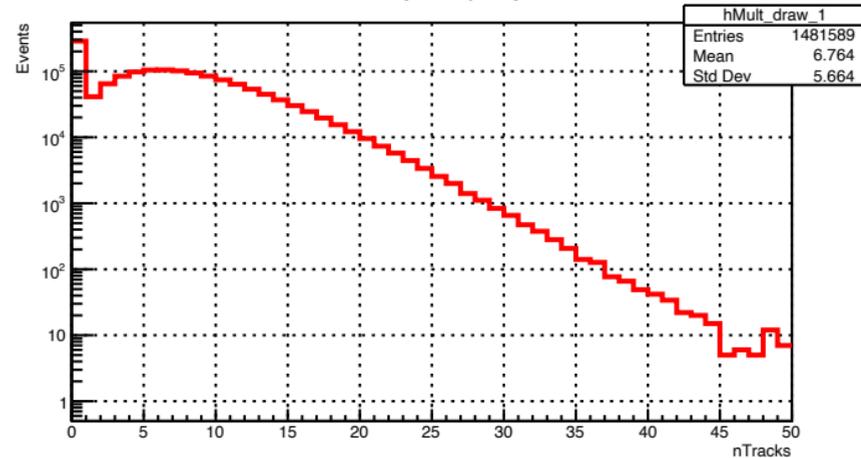
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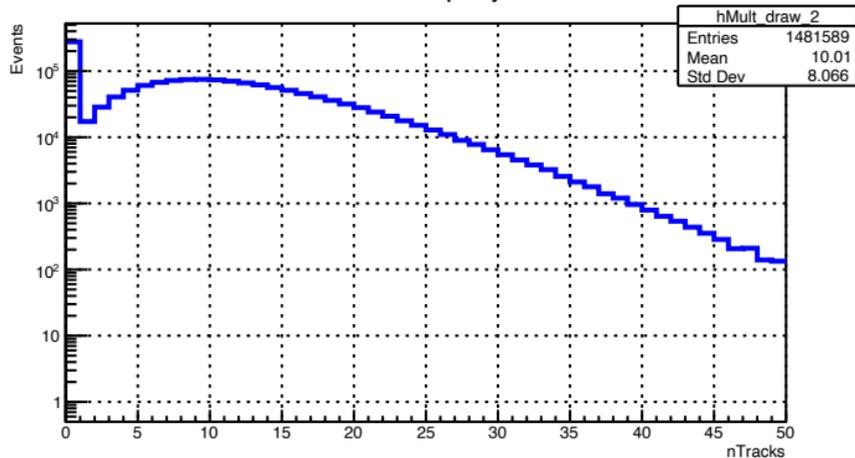
Global Multiplicity



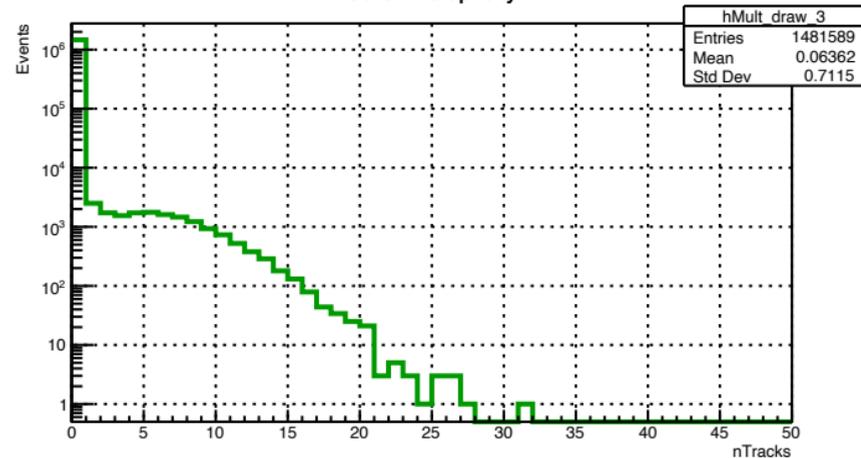
Primary Multiplicity

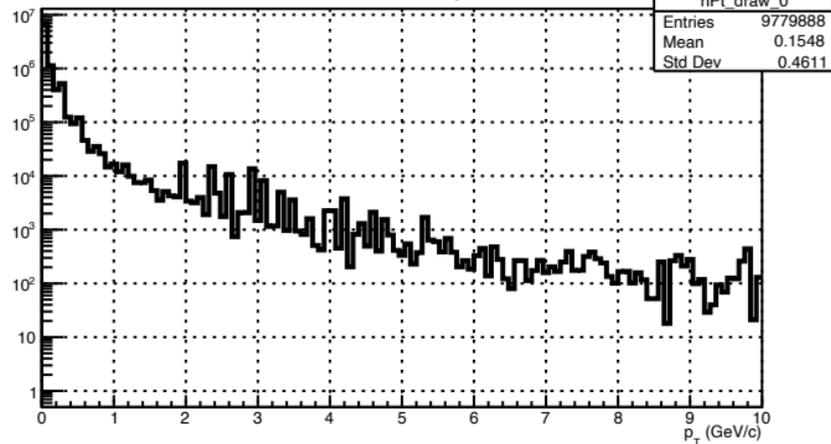
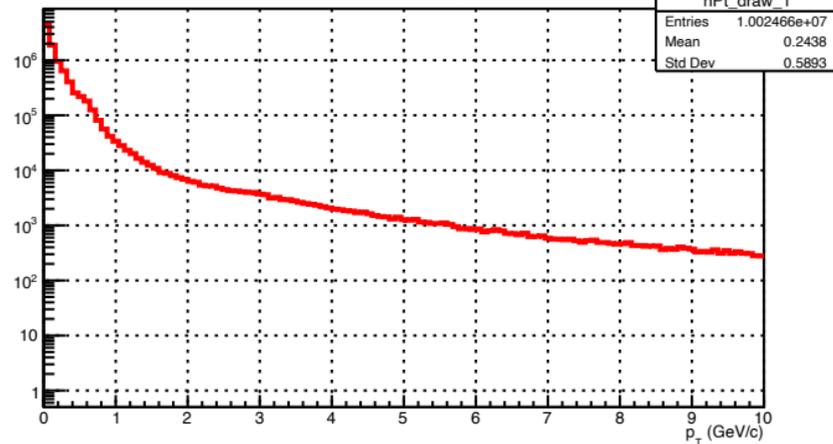
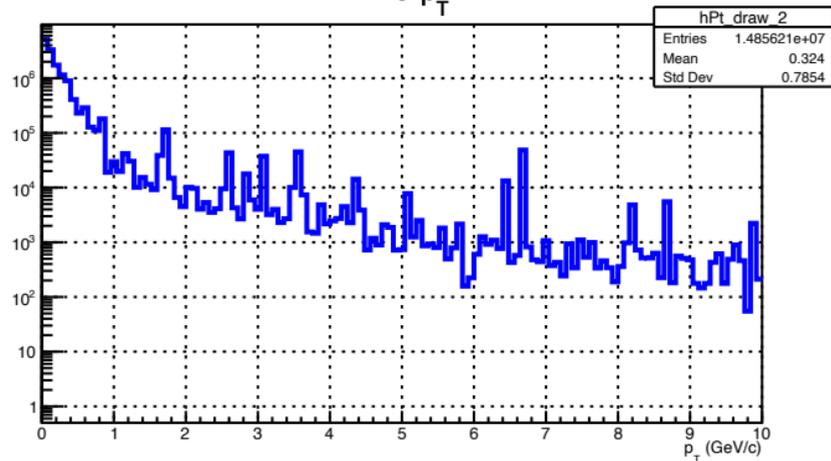
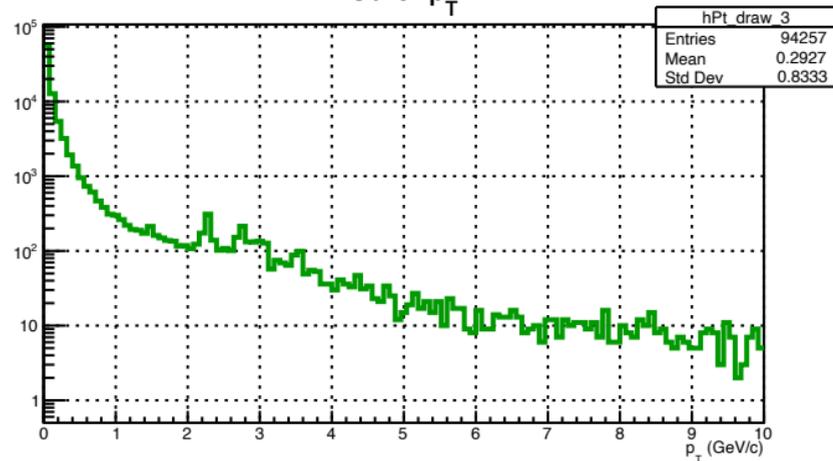


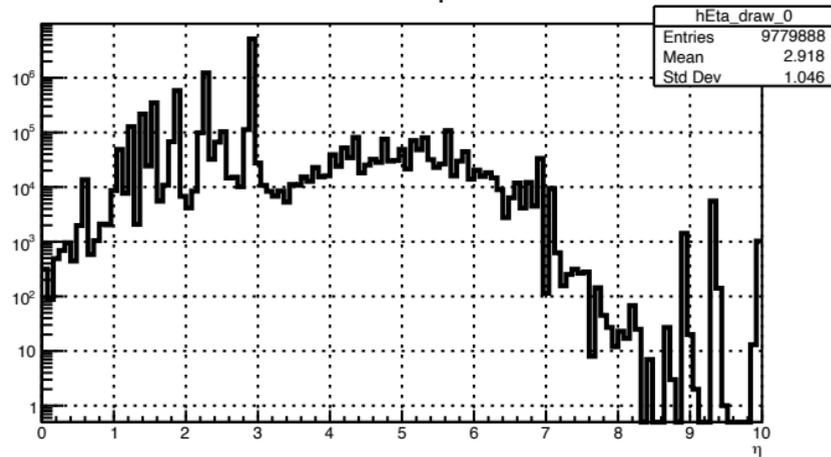
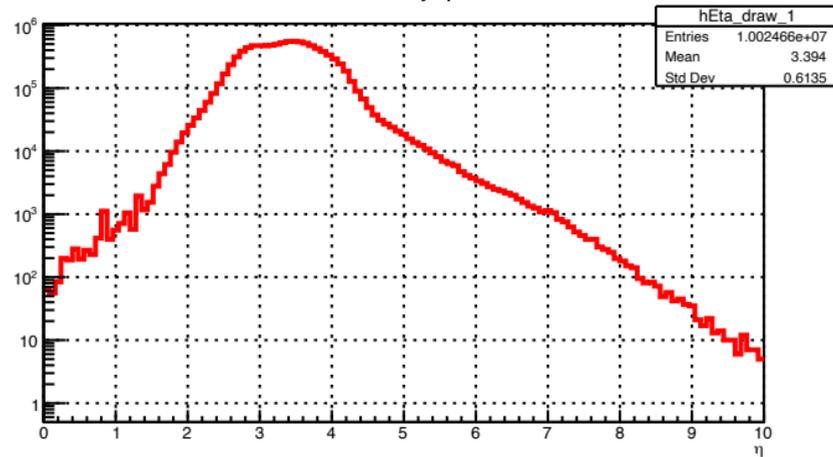
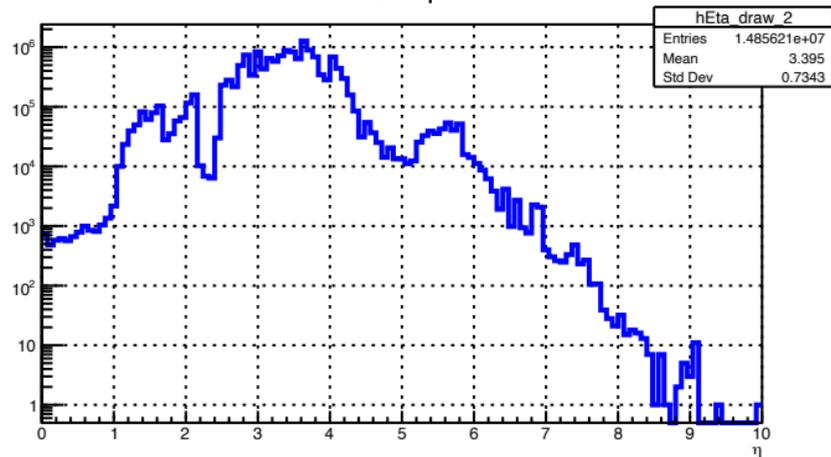
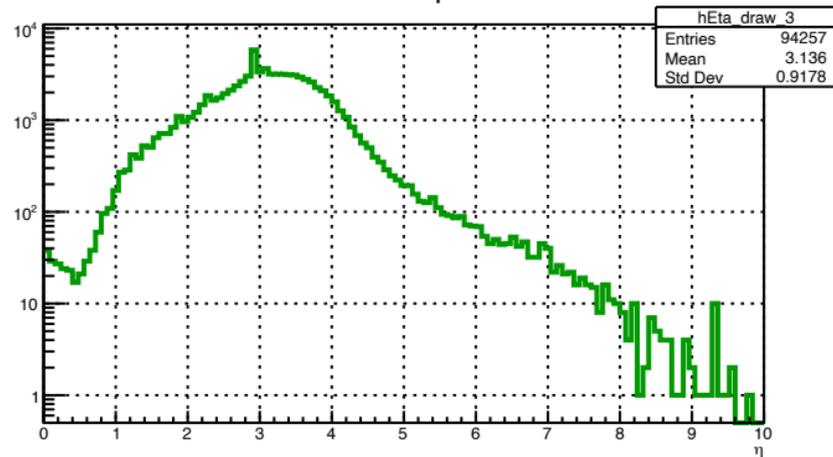
BLC Multiplicity

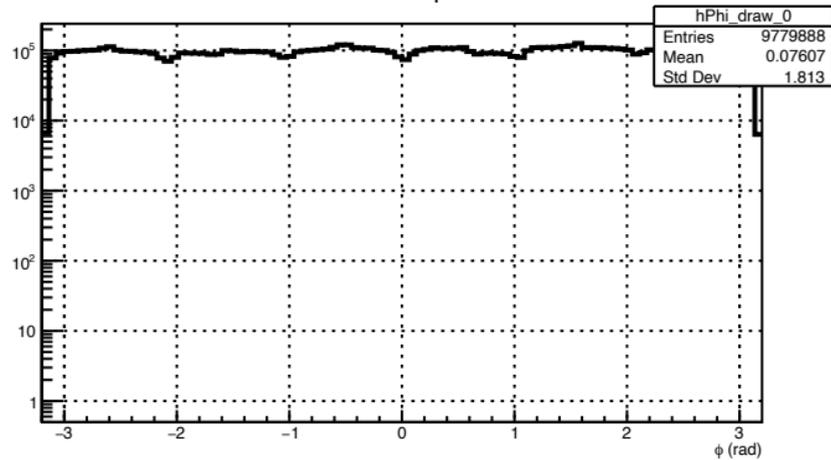
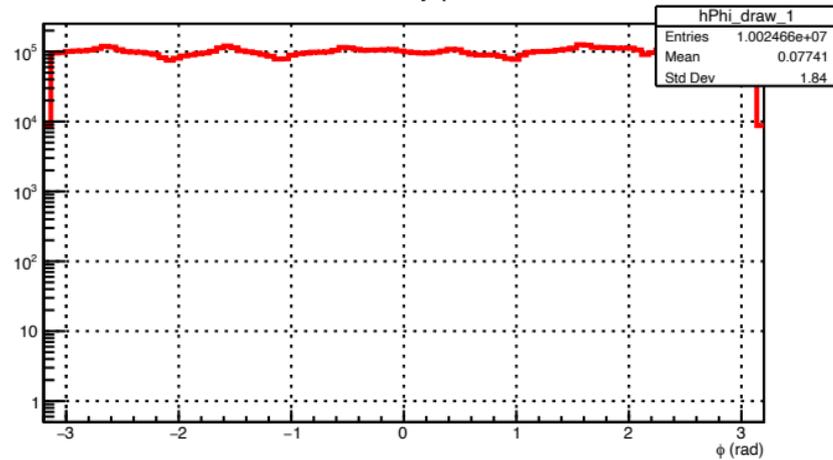
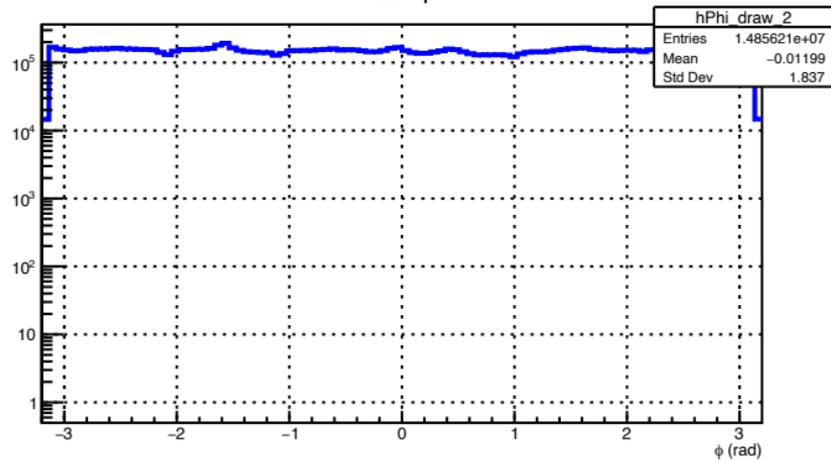
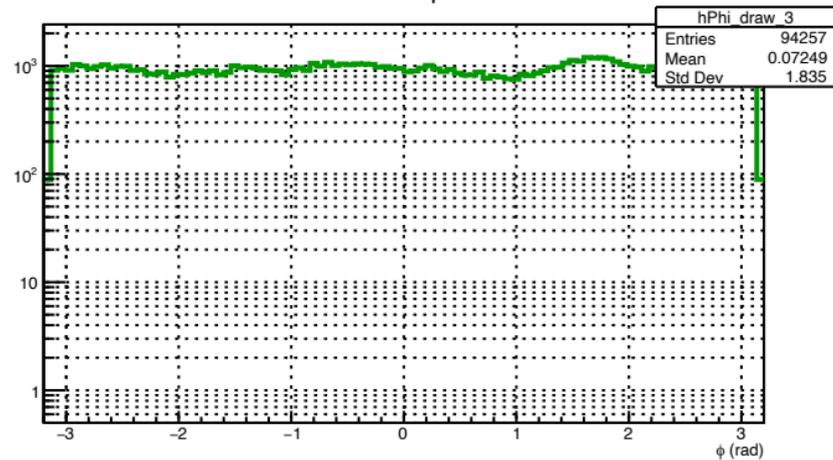


Other Multiplicity

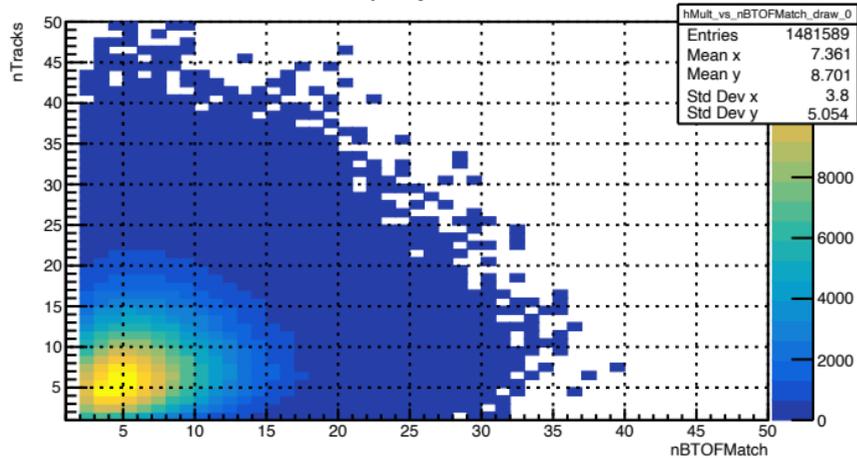


Global  $p_T$ Primary  $p_T$ BLC  $p_T$ Other  $p_T$ 

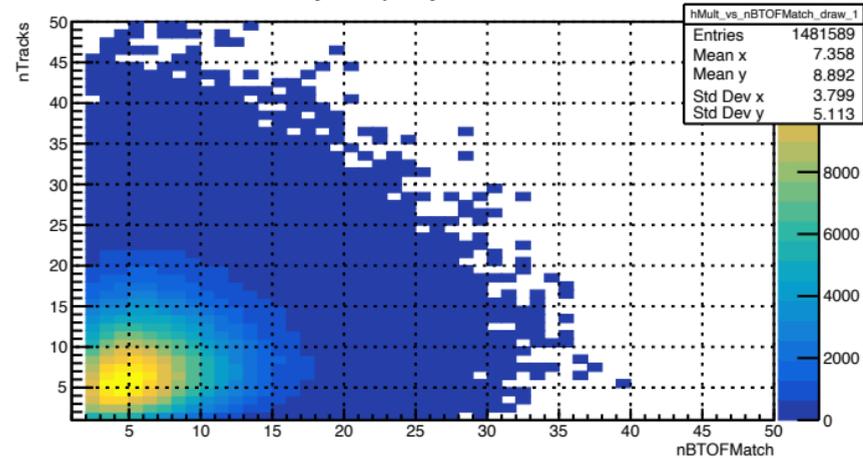
Global  $\eta$ Primary  $\eta$ BLC  $\eta$ Other  $\eta$ 

Global  $\phi$ Primary  $\phi$ BLC  $\phi$ Other  $\phi$ 

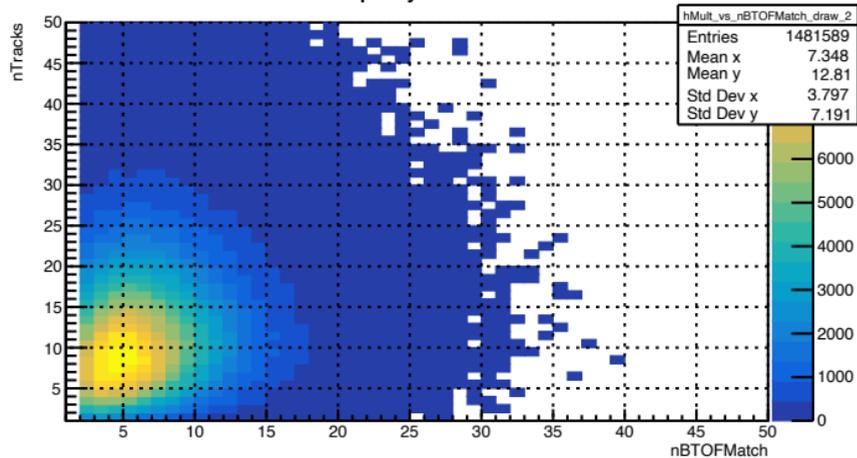
Global Multiplicity vs nBTOFMatch



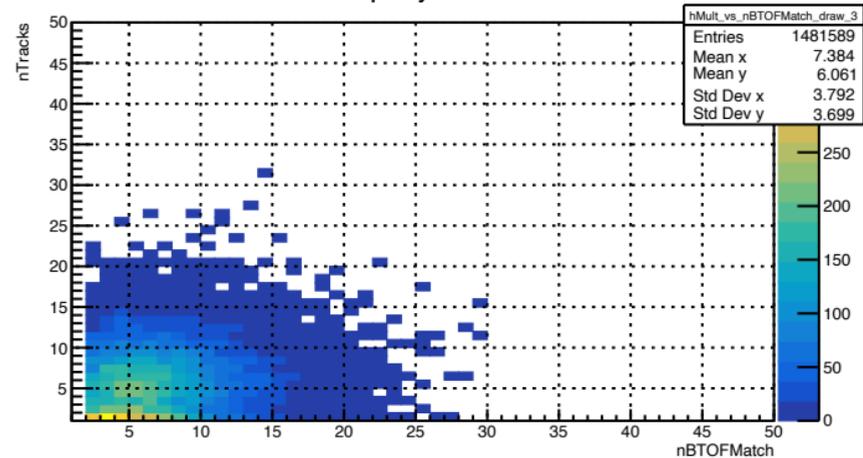
Primary Multiplicity vs nBTOFMatch



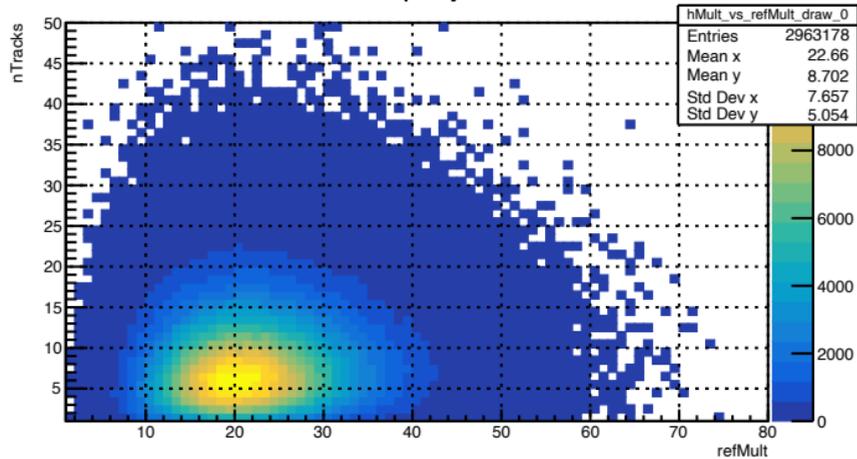
BLC Multiplicity vs nBTOFMatch



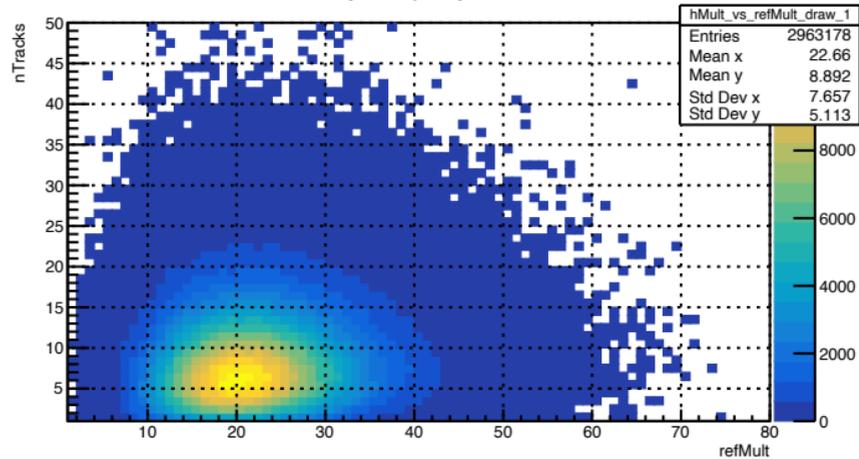
Other Multiplicity vs nBTOFMatch



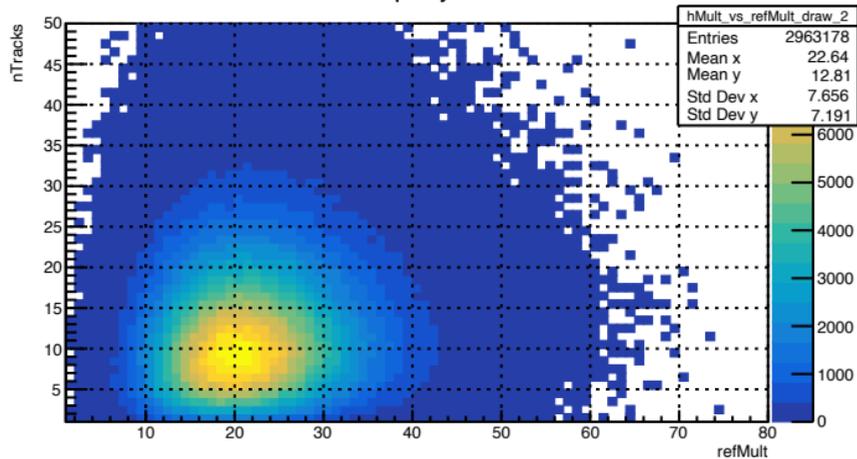
Global Multiplicity vs refMult



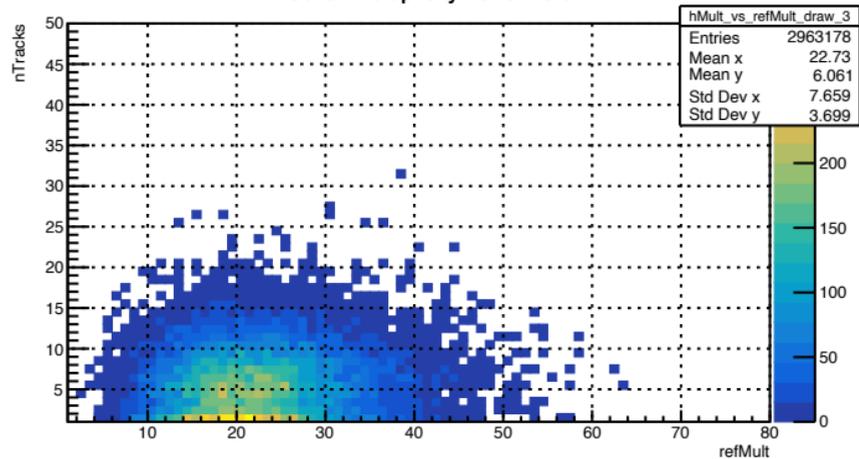
Primary Multiplicity vs refMult

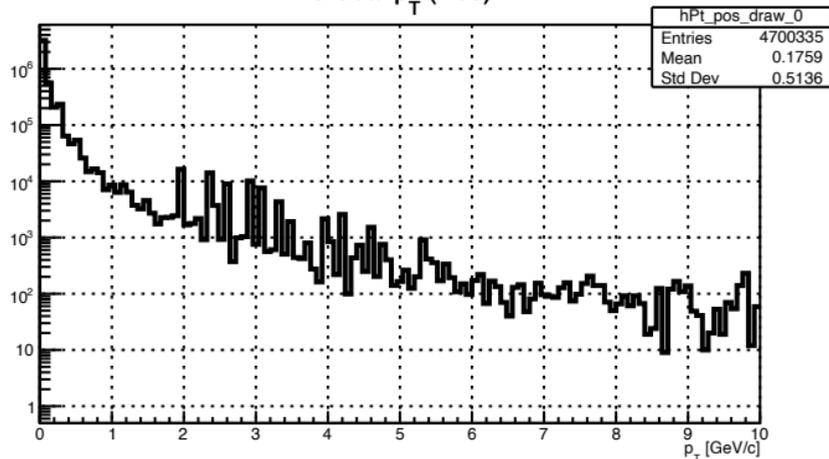
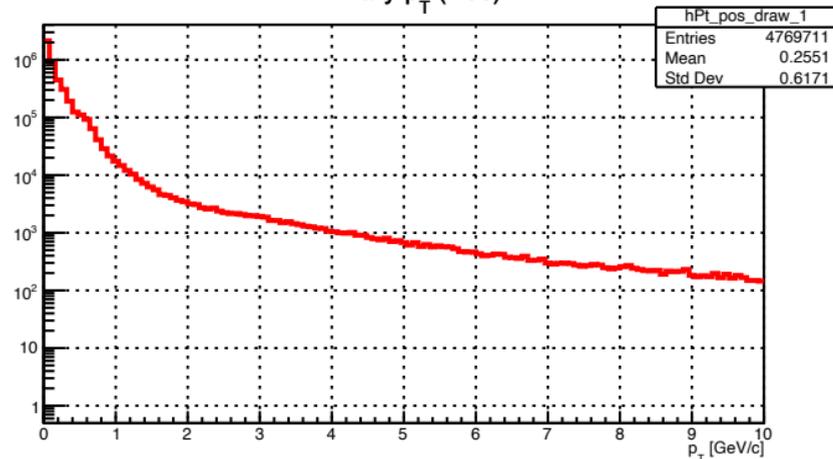
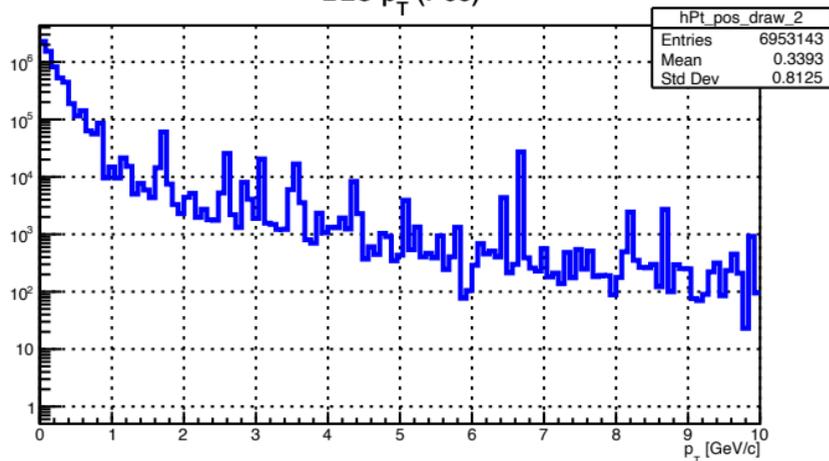
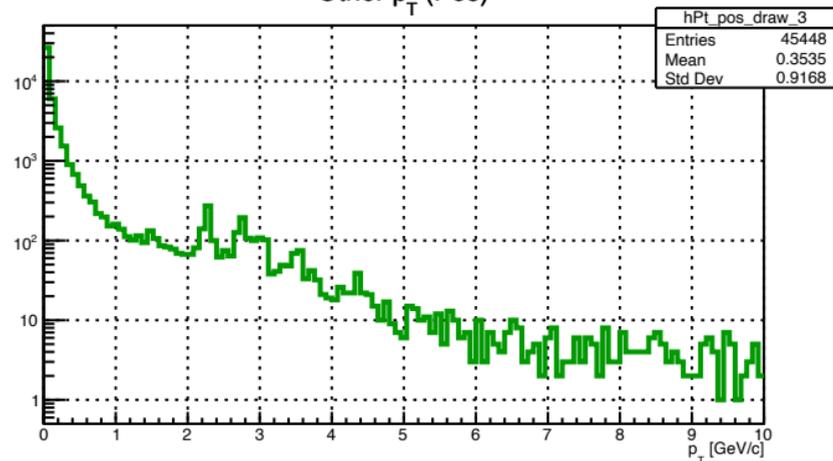


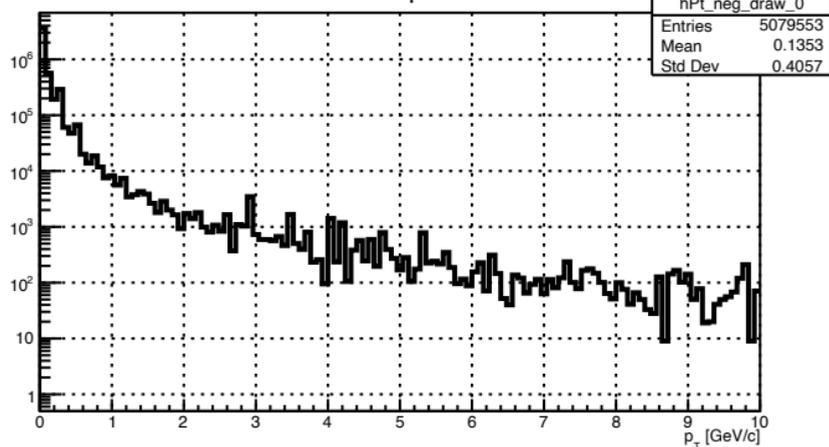
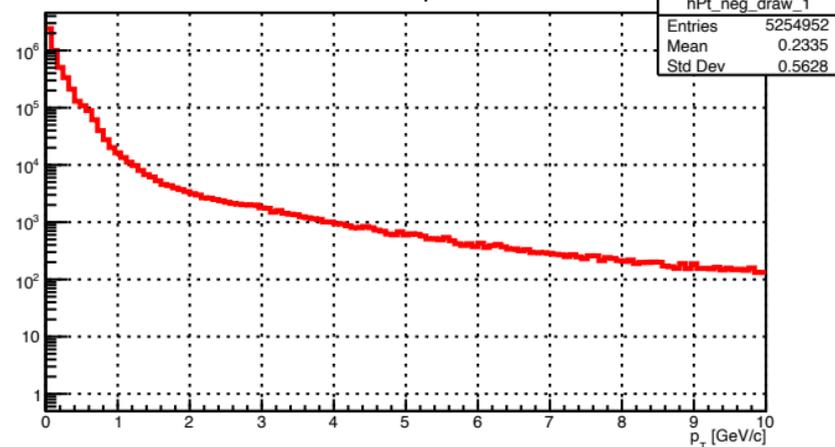
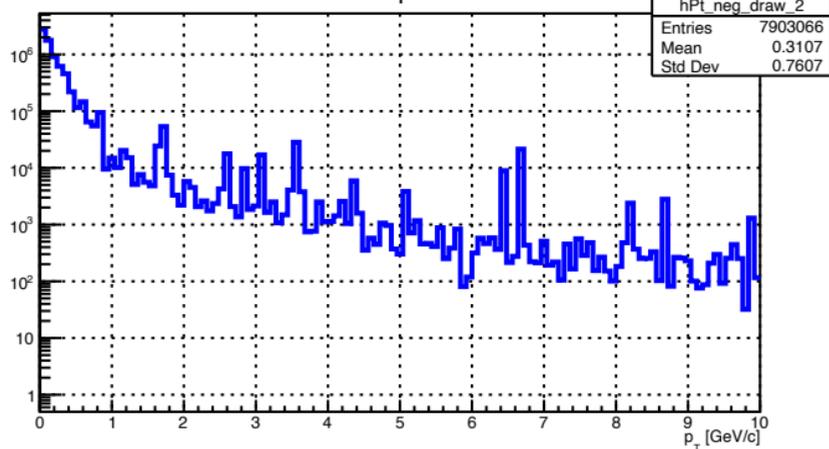
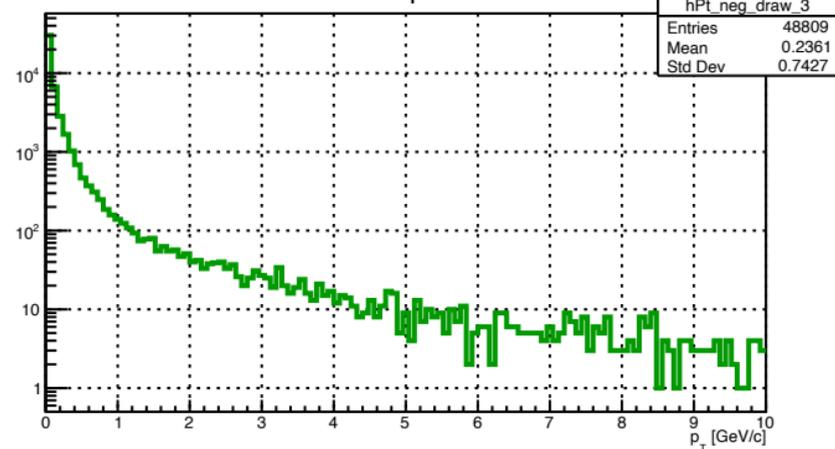
BLC Multiplicity vs refMult

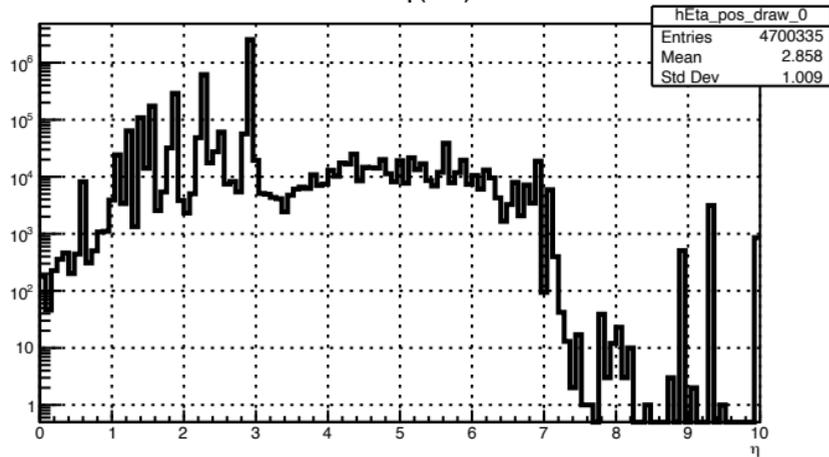
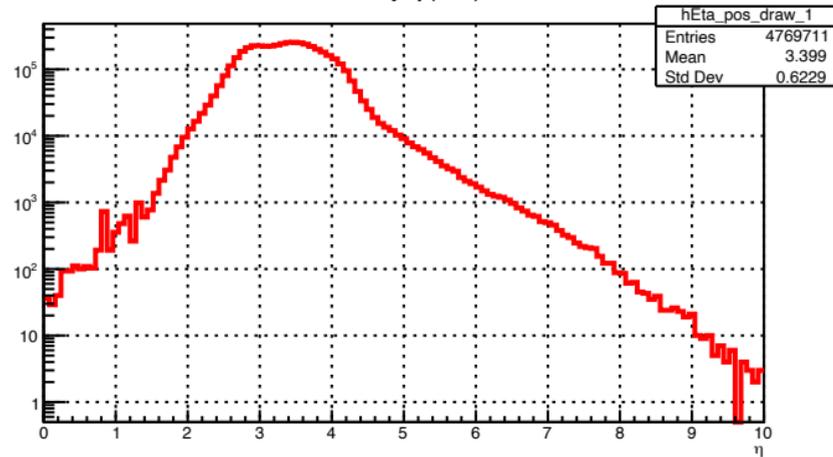
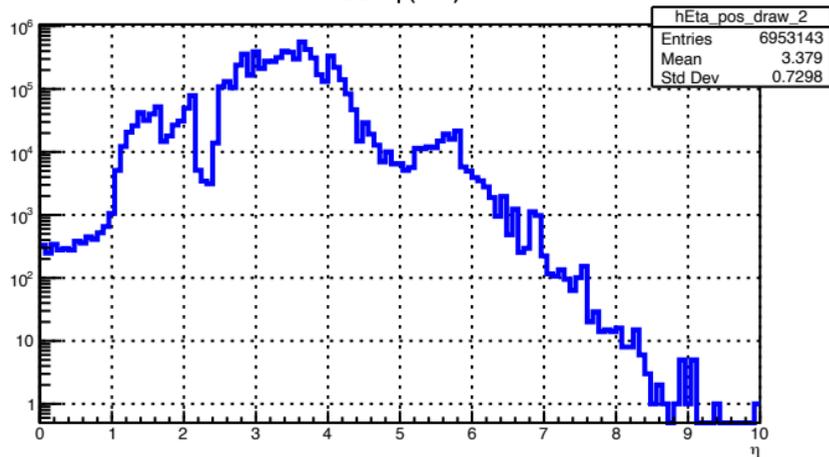
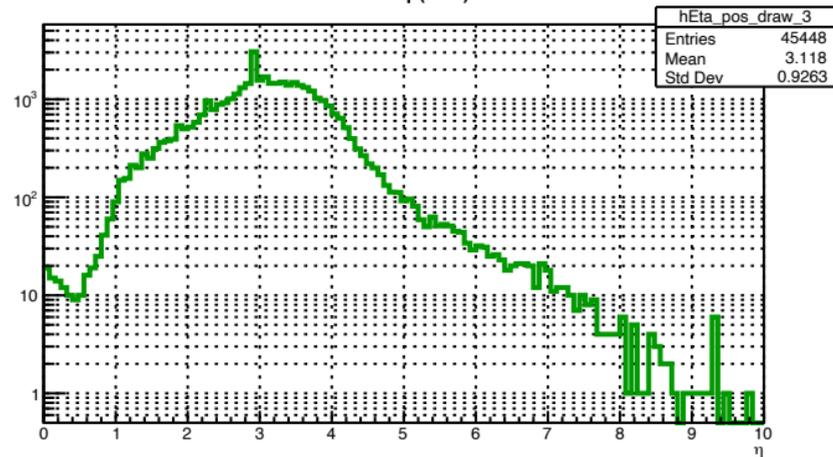


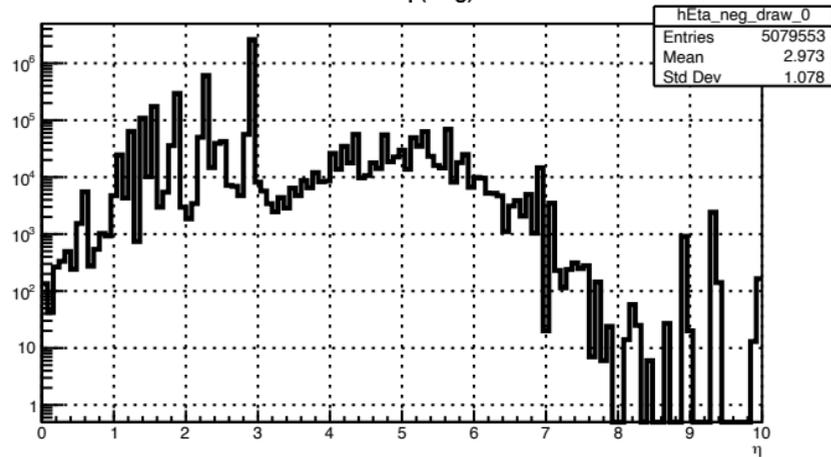
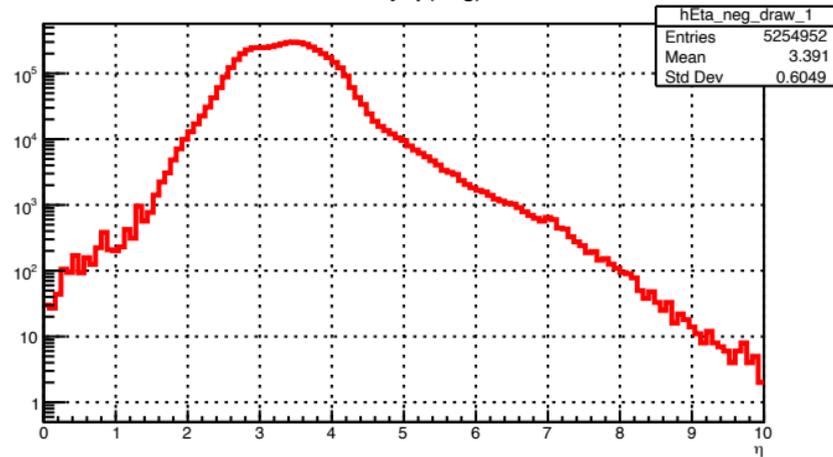
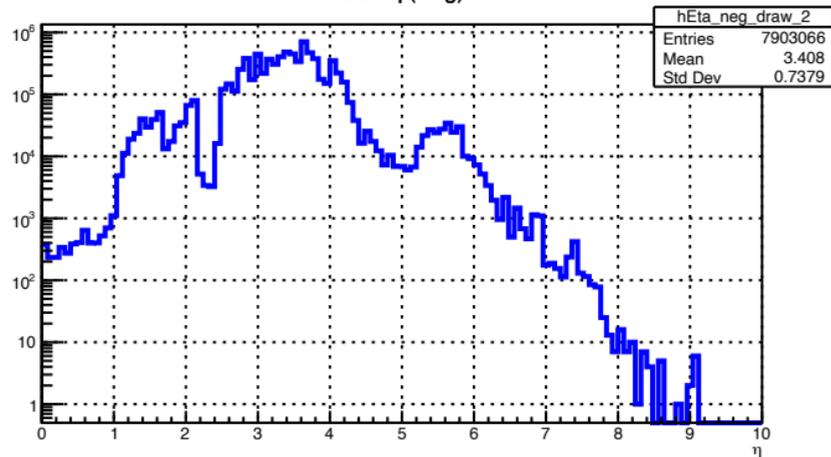
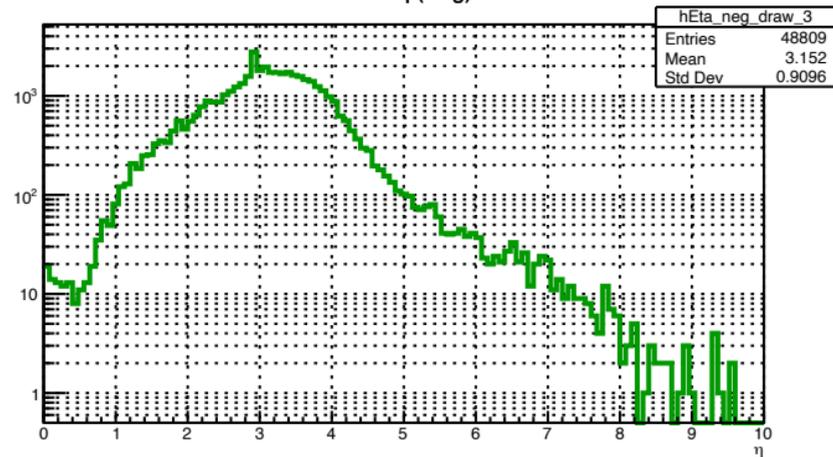
Other Multiplicity vs refMult

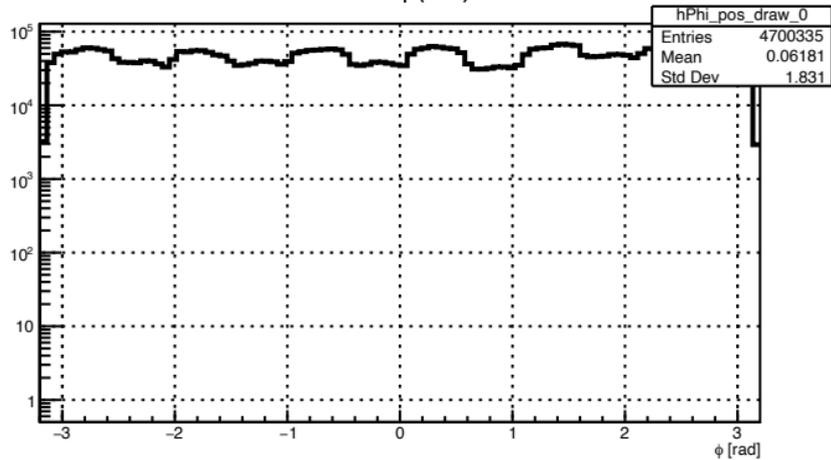
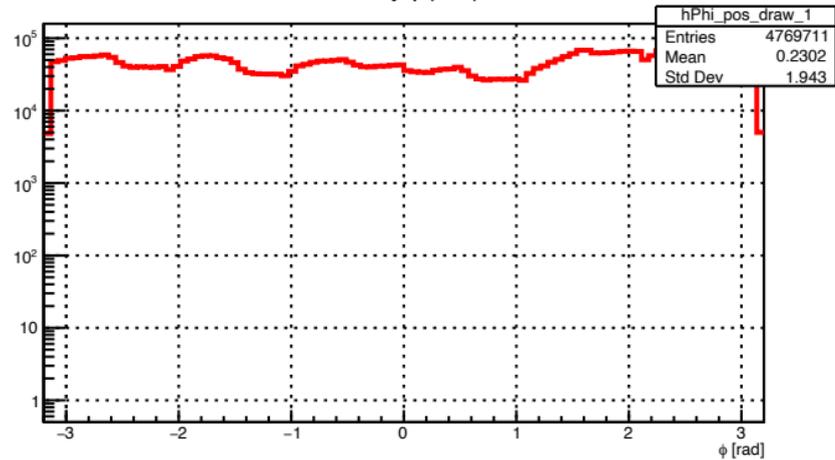
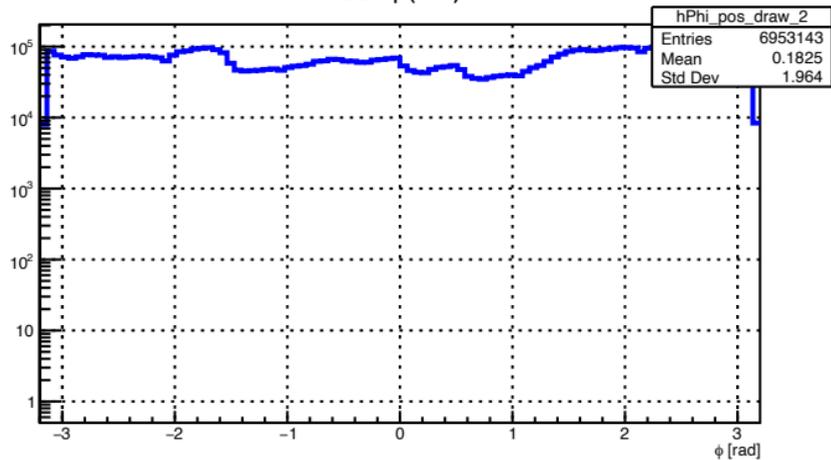
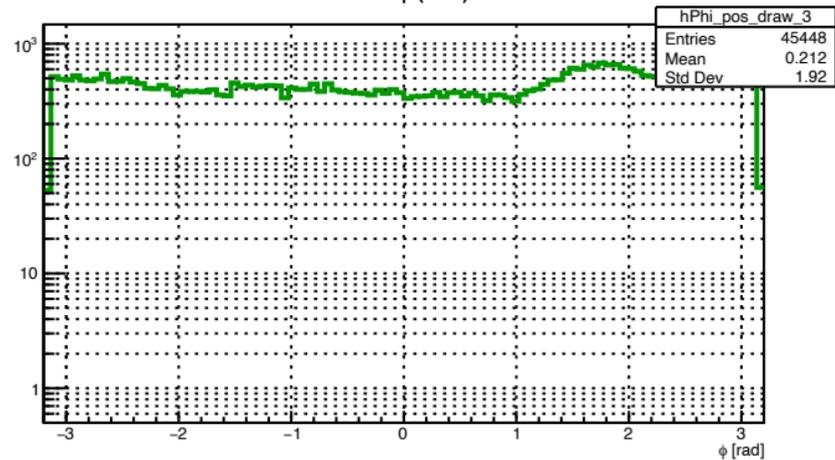


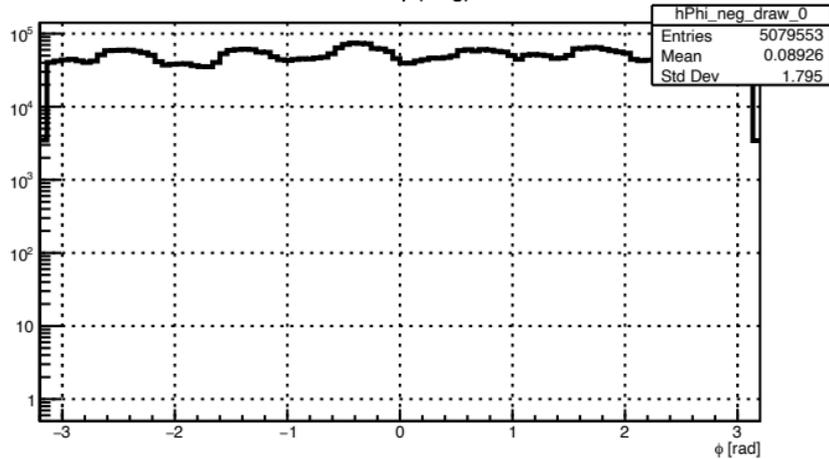
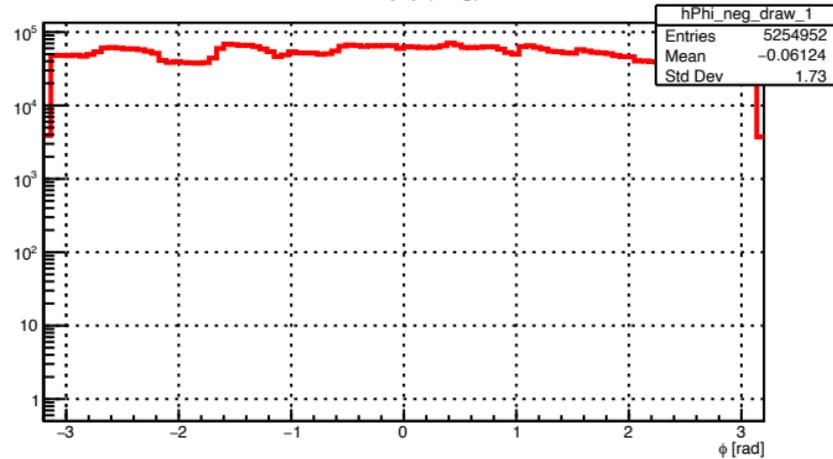
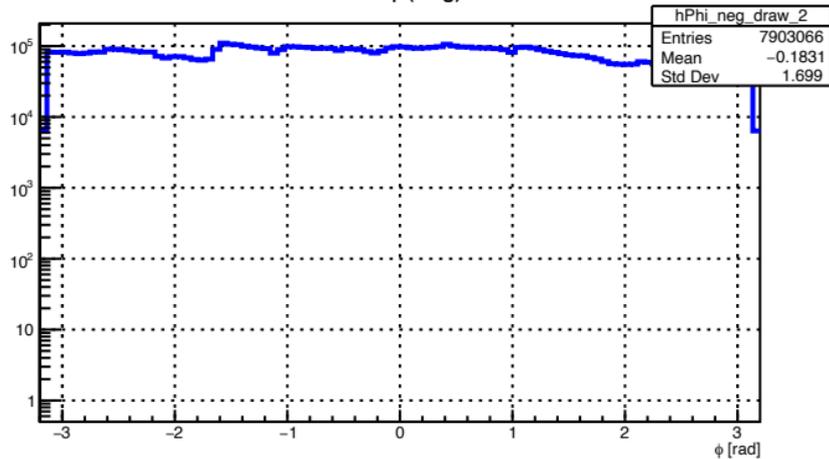
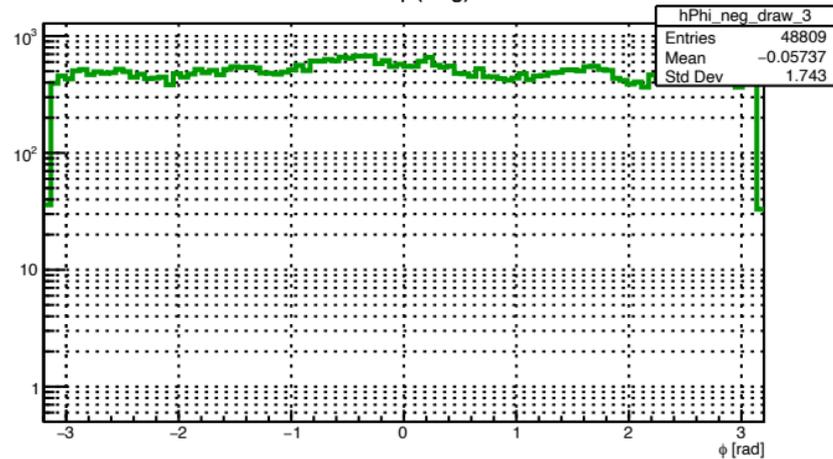
Global  $p_T$  (Pos)Primary  $p_T$  (Pos)BLC  $p_T$  (Pos)Other  $p_T$  (Pos)

Global  $p_T$  (Neg)Primary  $p_T$  (Neg)BLC  $p_T$  (Neg)Other  $p_T$  (Neg)

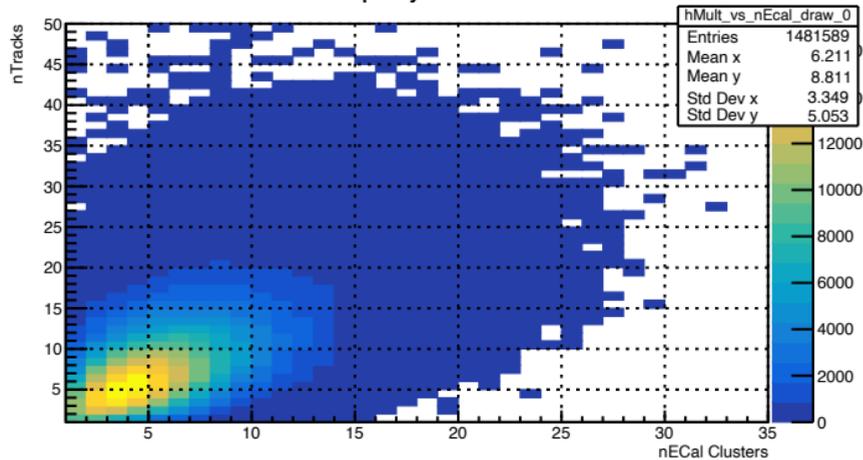
Global  $\eta$  (Pos)Primary  $\eta$  (Pos)BLC  $\eta$  (Pos)Other  $\eta$  (Pos)

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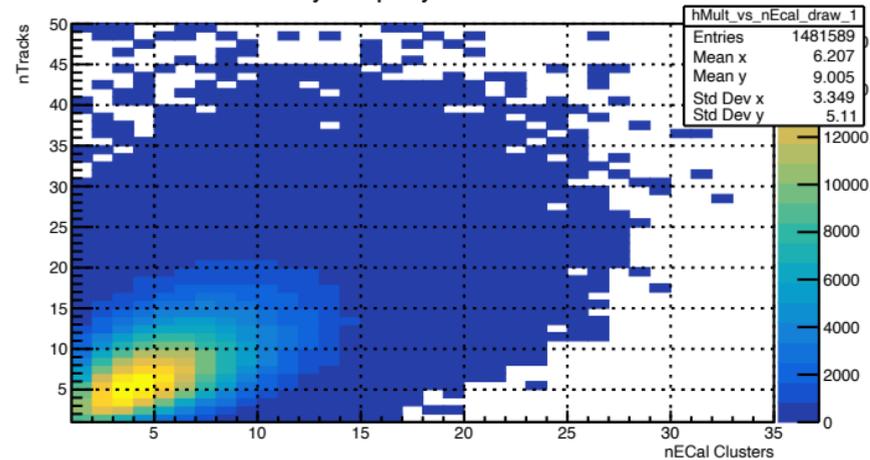
Global  $\phi$  (Pos)Primary  $\phi$  (Pos)BLC  $\phi$  (Pos)Other  $\phi$  (Pos)

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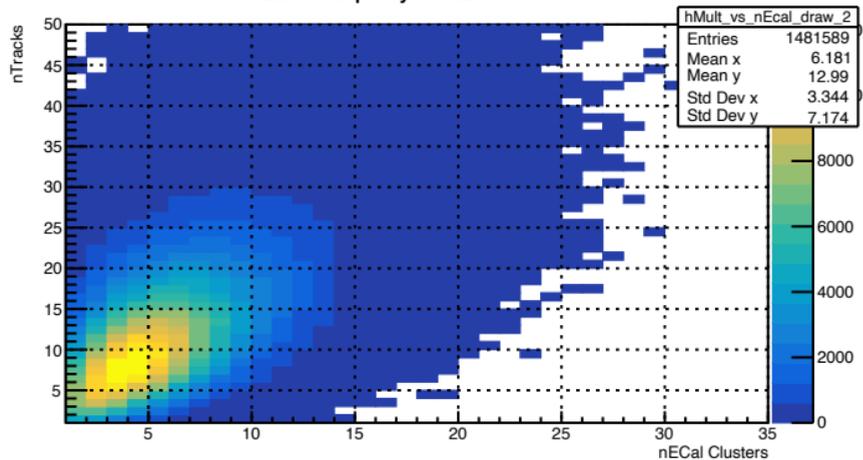
Global Multiplicity vs nECal Clusters



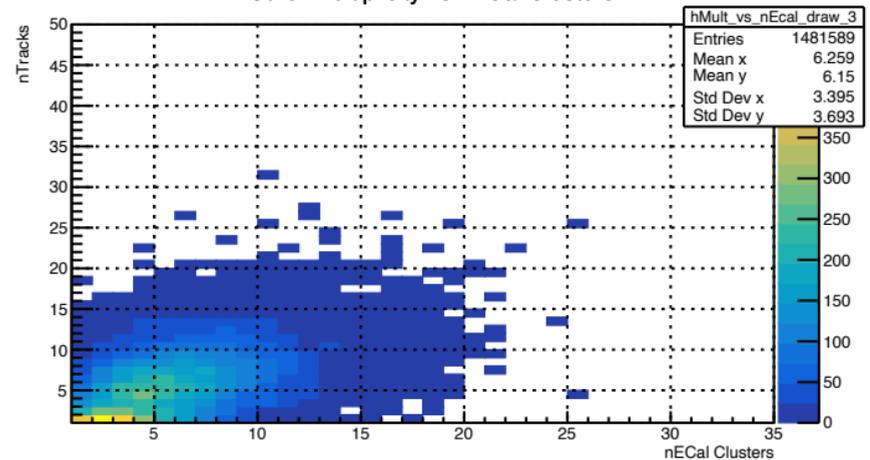
Primary Multiplicity vs nECal Clusters



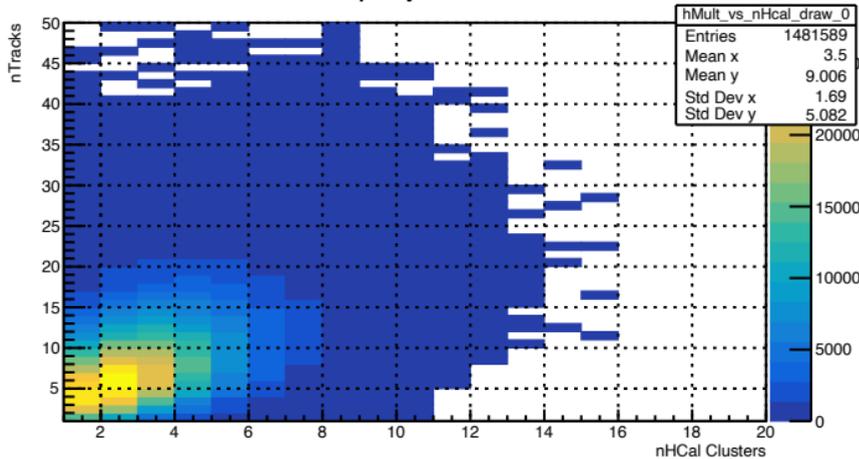
BLC Multiplicity vs nECal Clusters



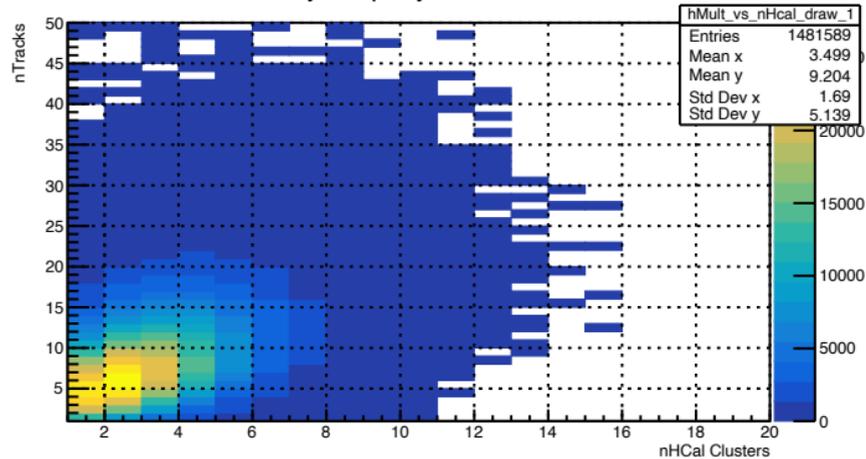
Other Multiplicity vs nECal Clusters



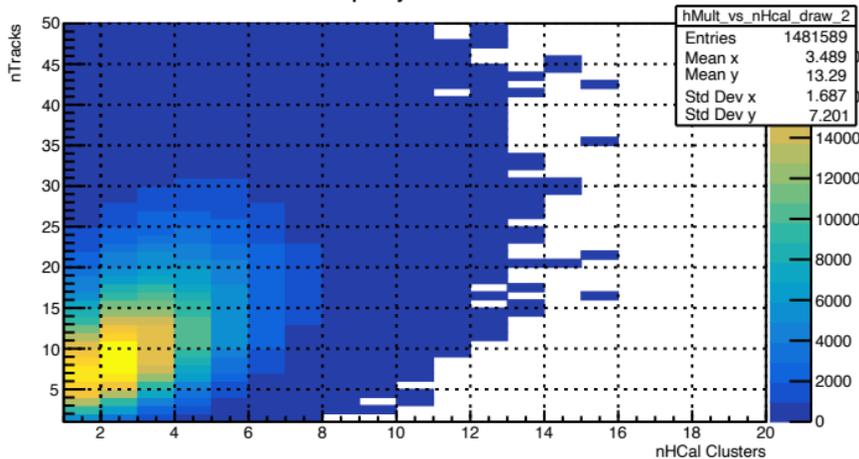
Global Multiplicity vs nHCal Clusters



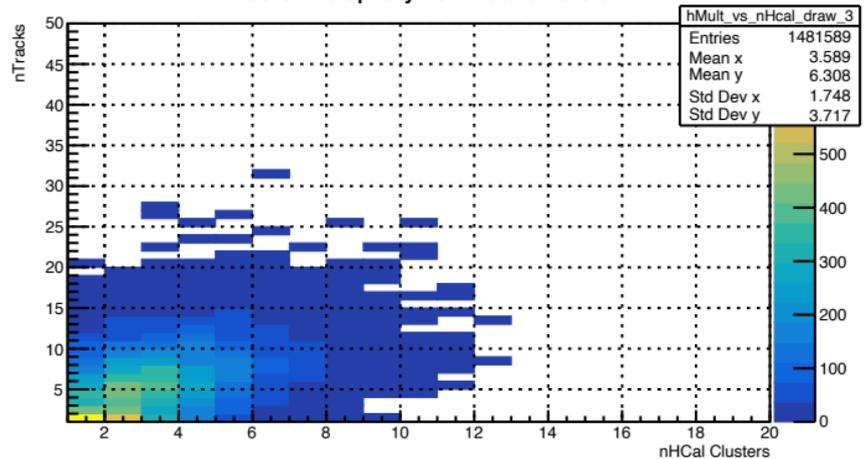
Primary Multiplicity vs nHCal Clusters



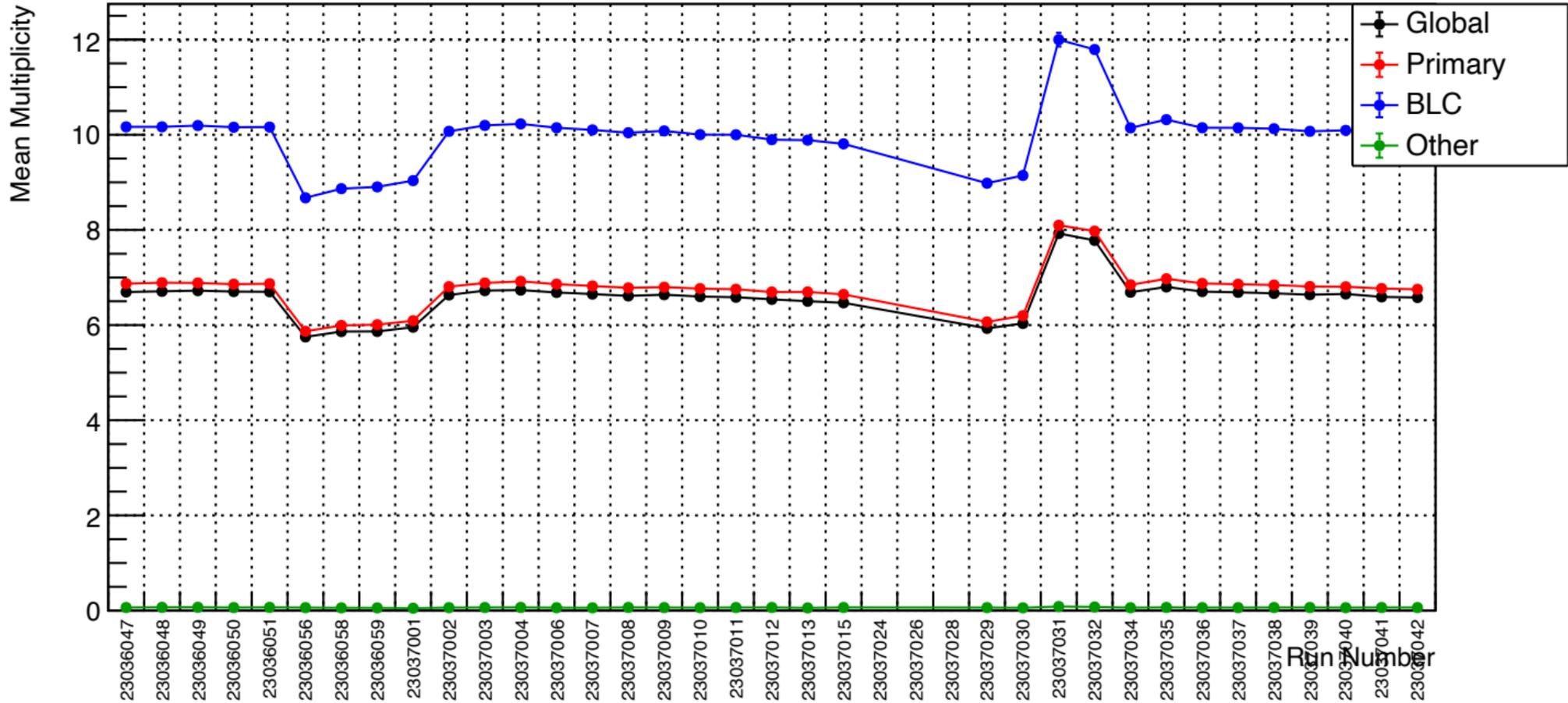
BLC Multiplicity vs nHCal Clusters



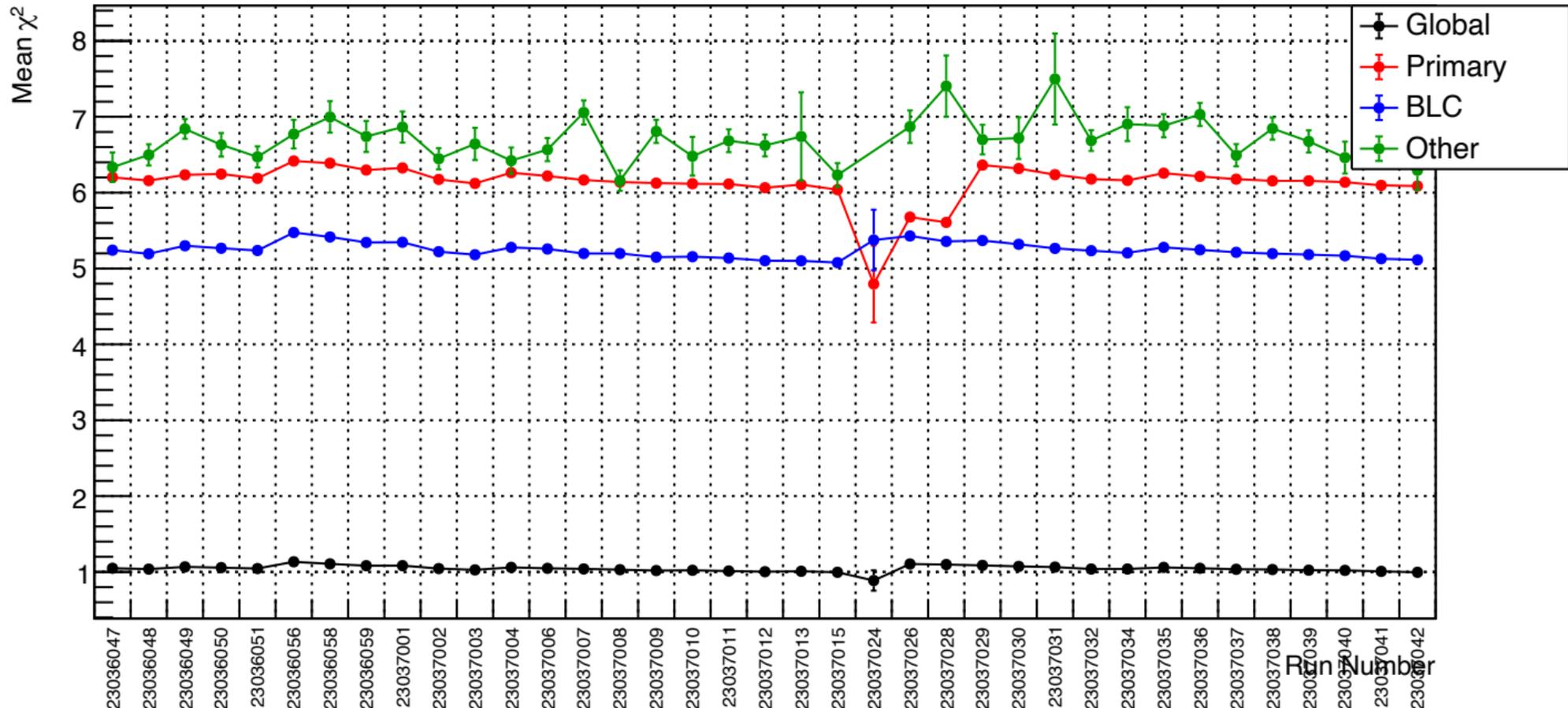
Other Multiplicity vs nHCal Clusters



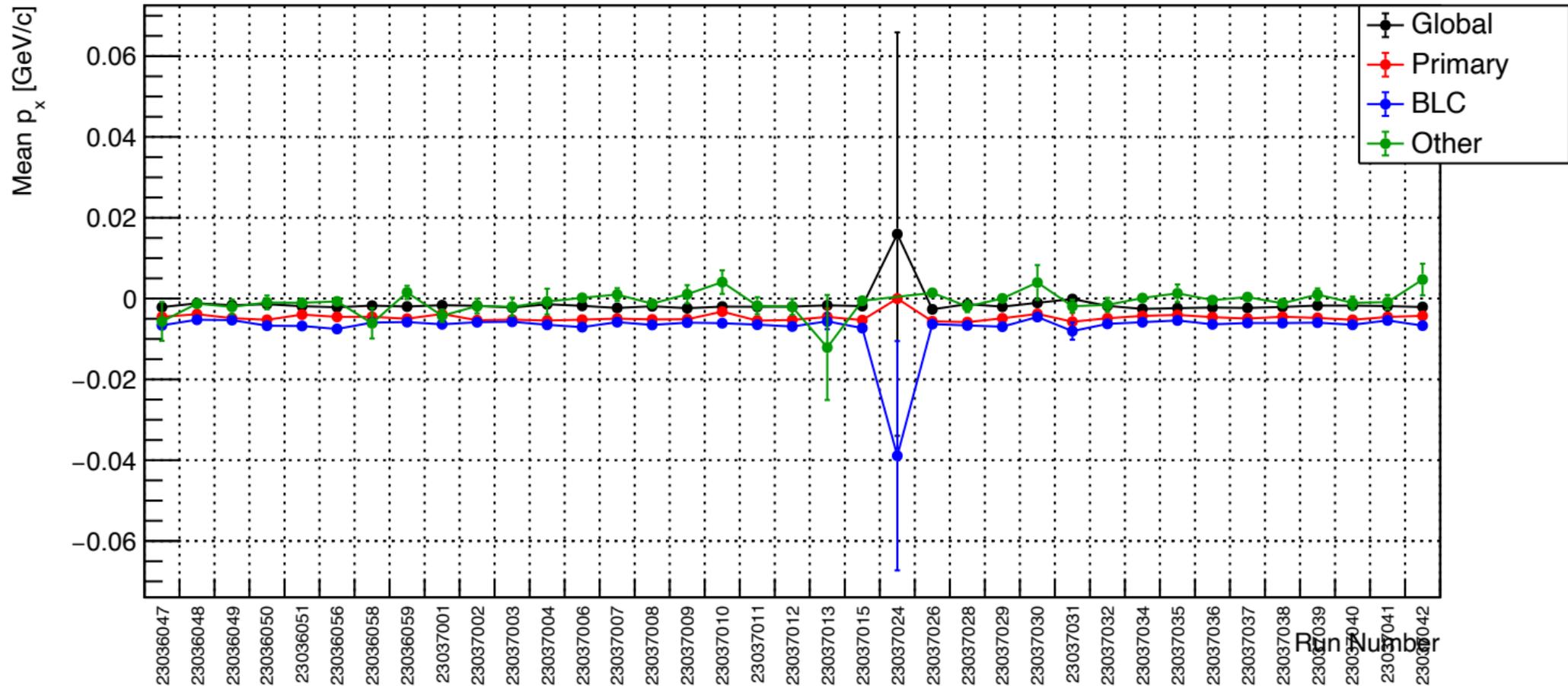
# Mean hMult vs Run Number



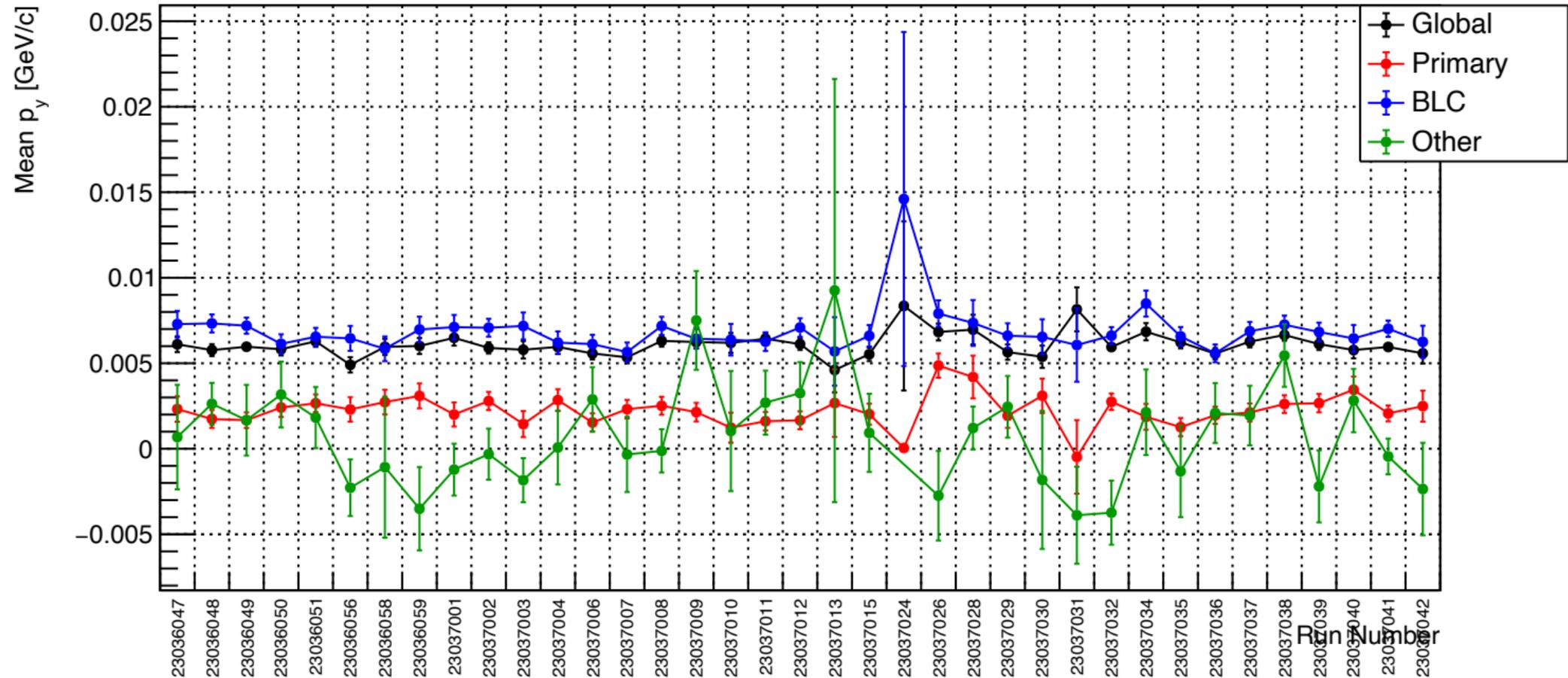
# Mean h\_mChi2 vs Run Number



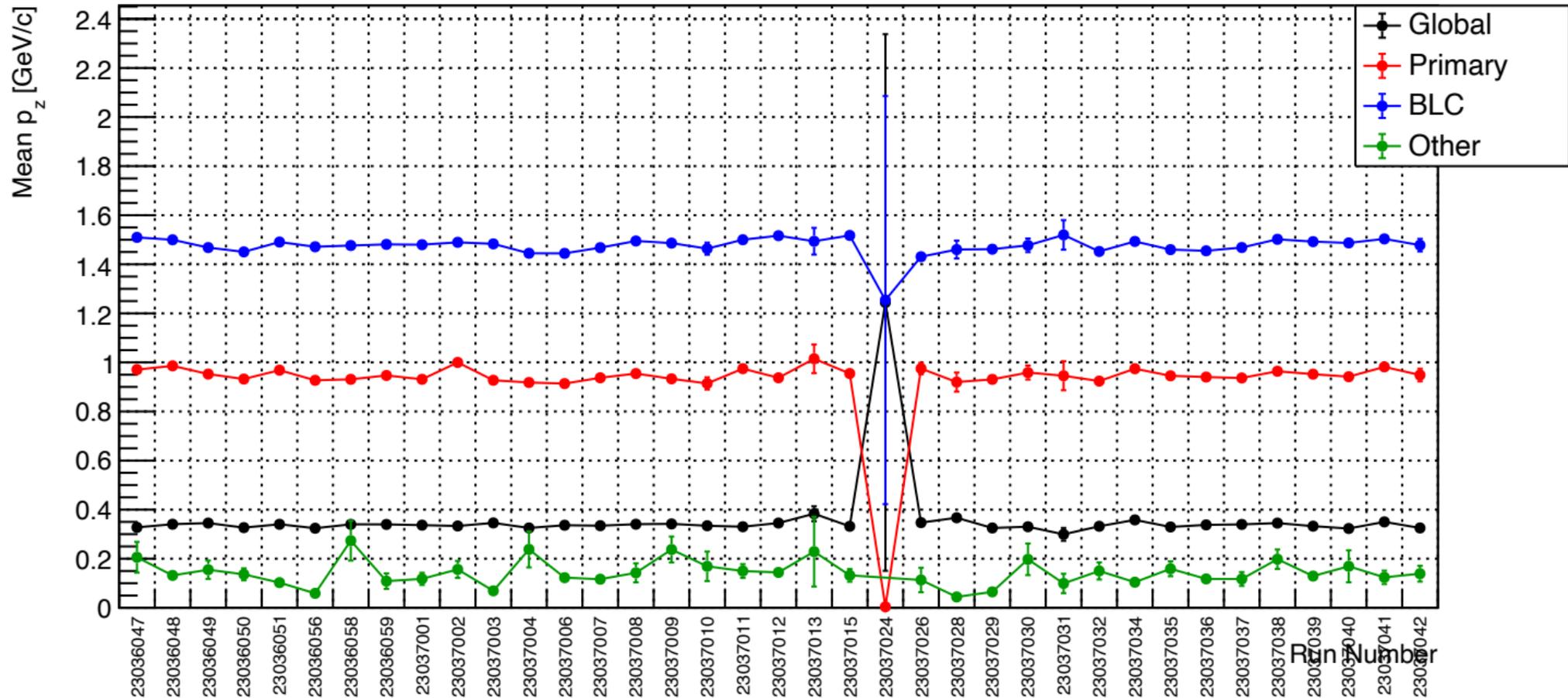
# Mean $h_m$ MomentumX vs Run Number



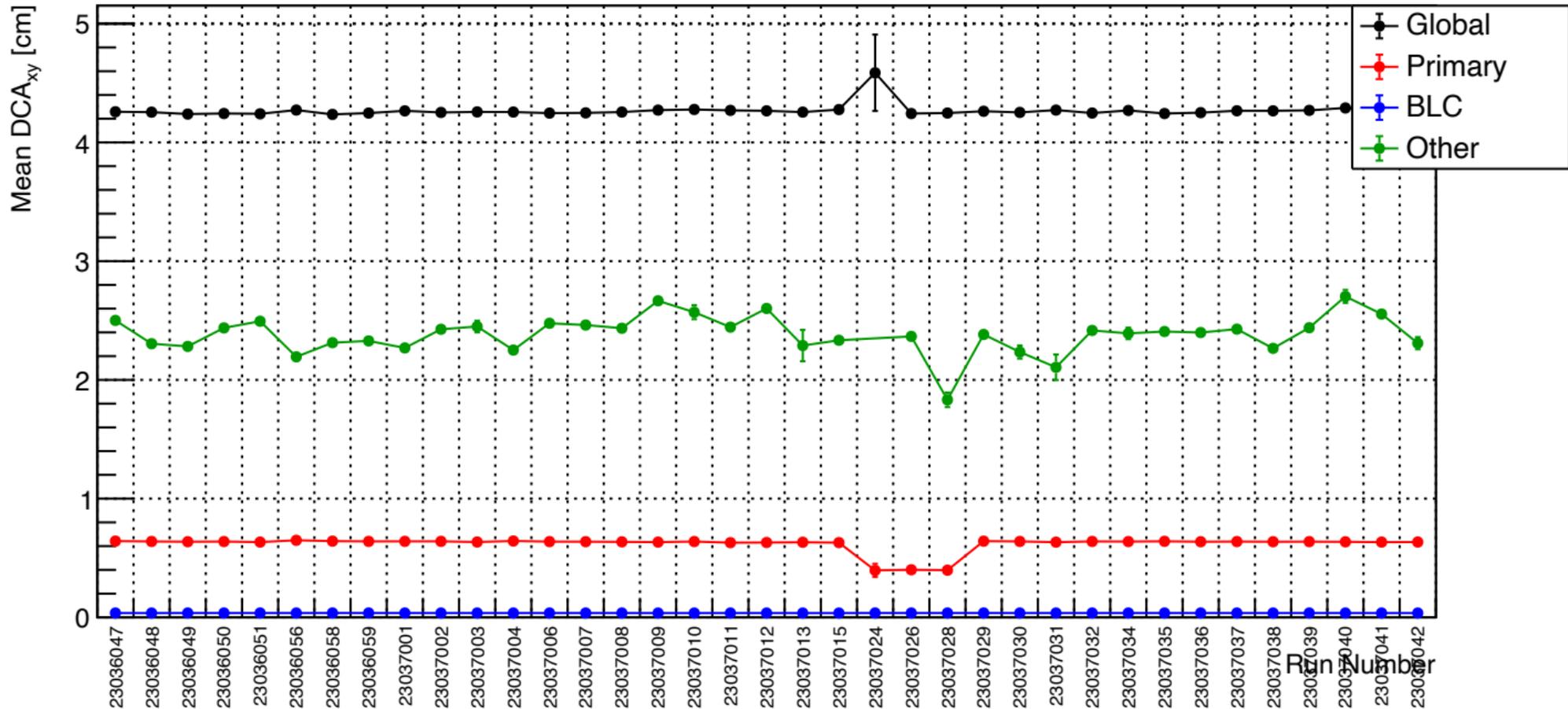
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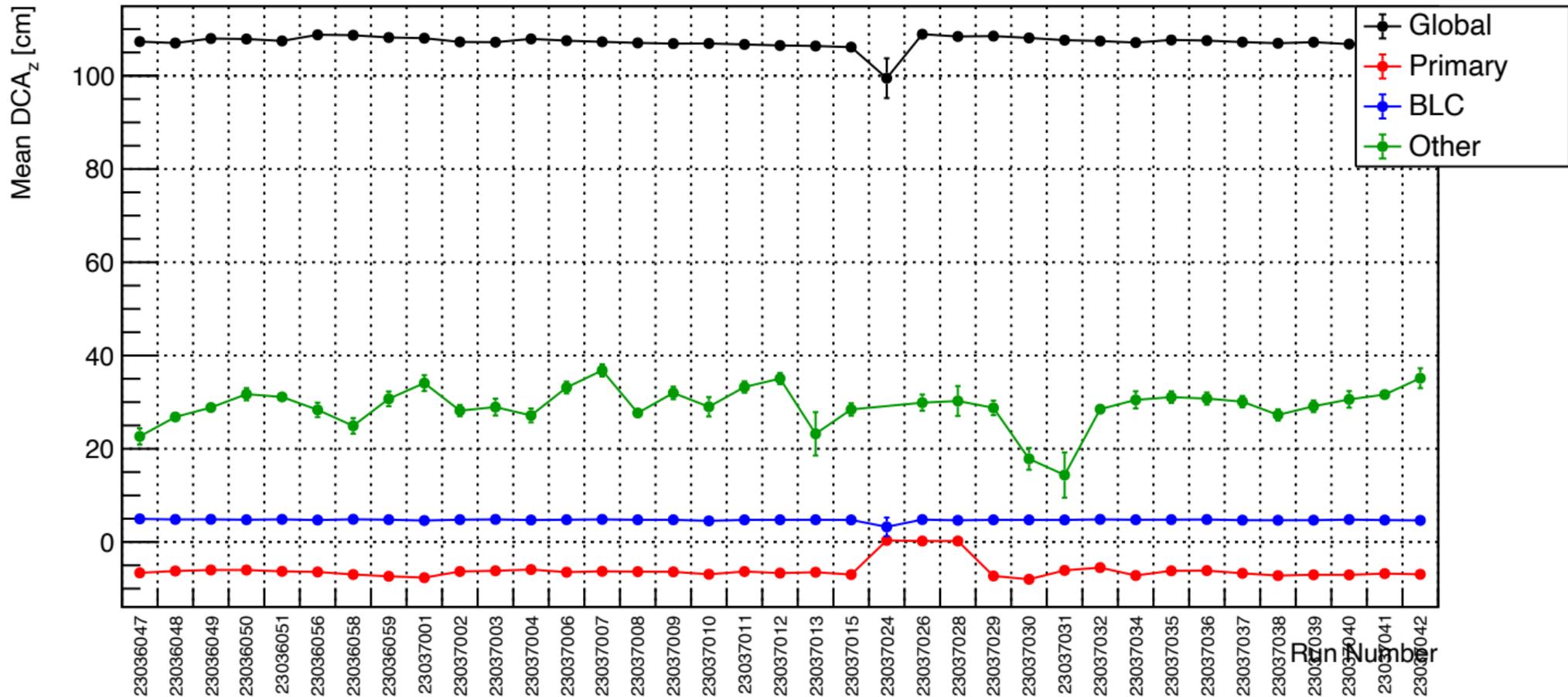
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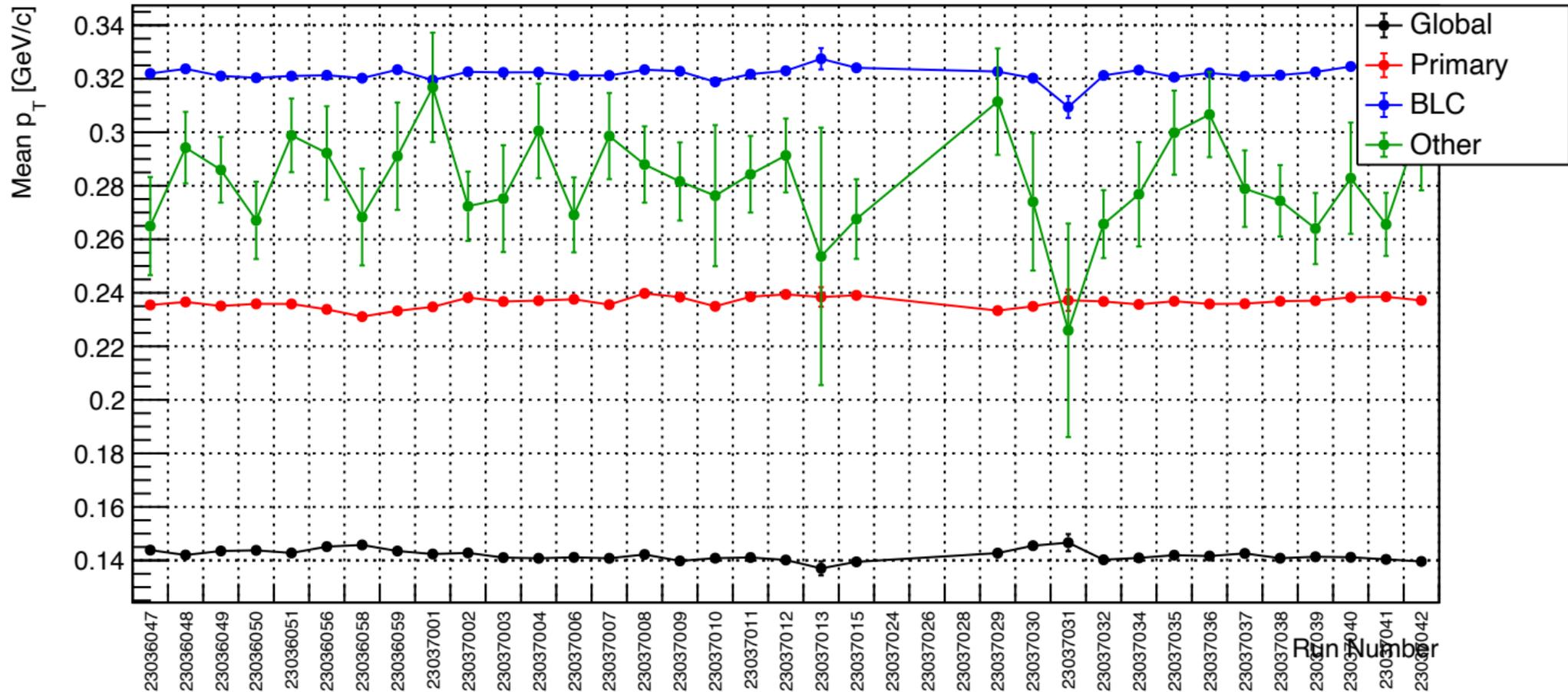
# Mean h\_mDCA<sub>xy</sub> vs Run Number



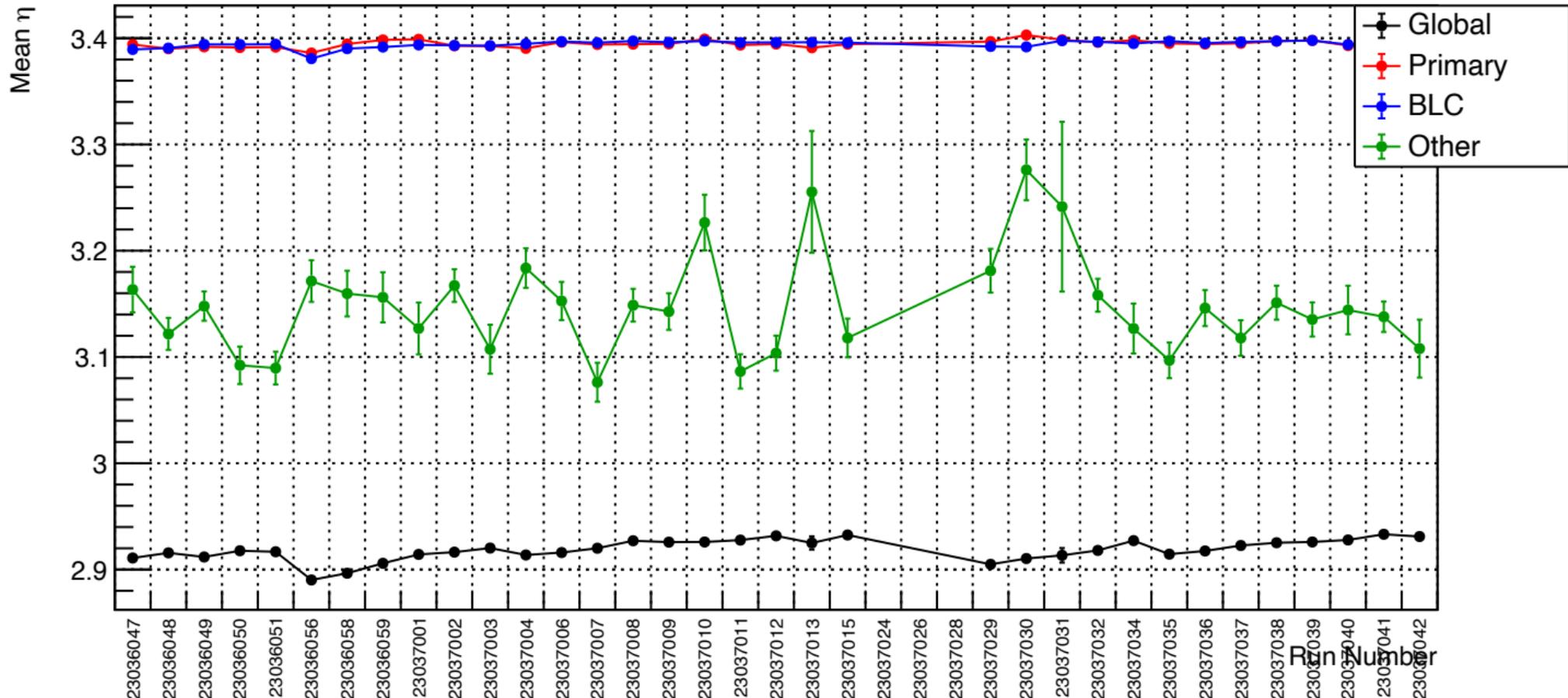
# Mean h\_mDCAZ vs Run Number



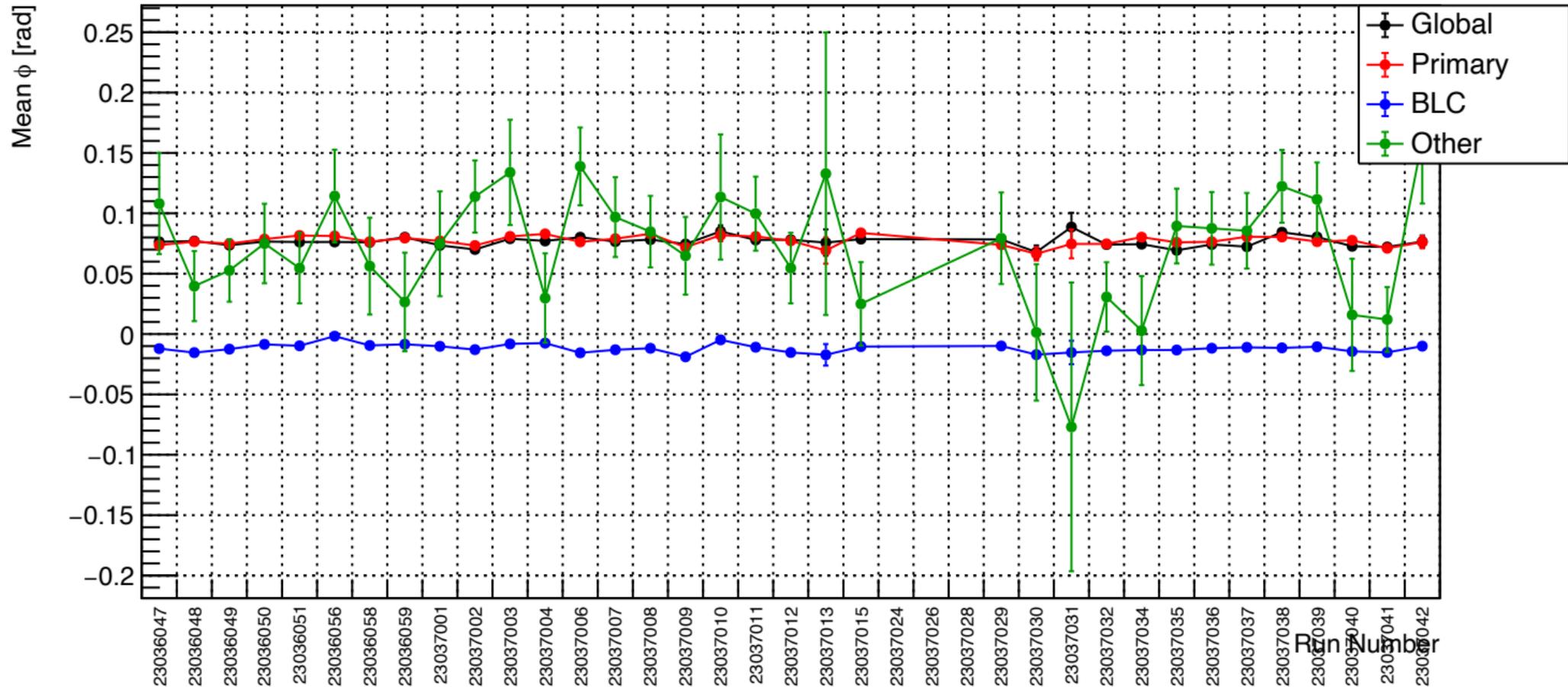
# Mean hPt vs Run Number



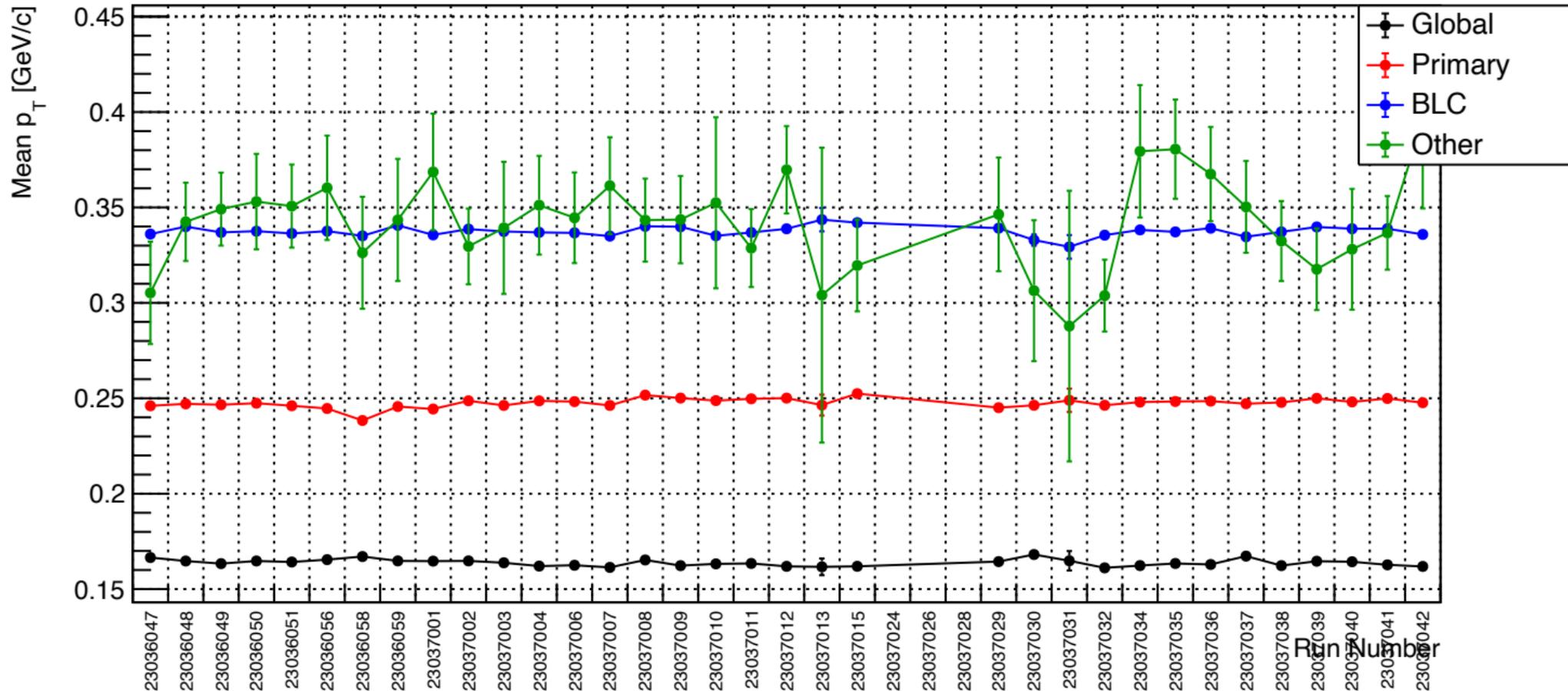
# Mean hEta vs Run Number



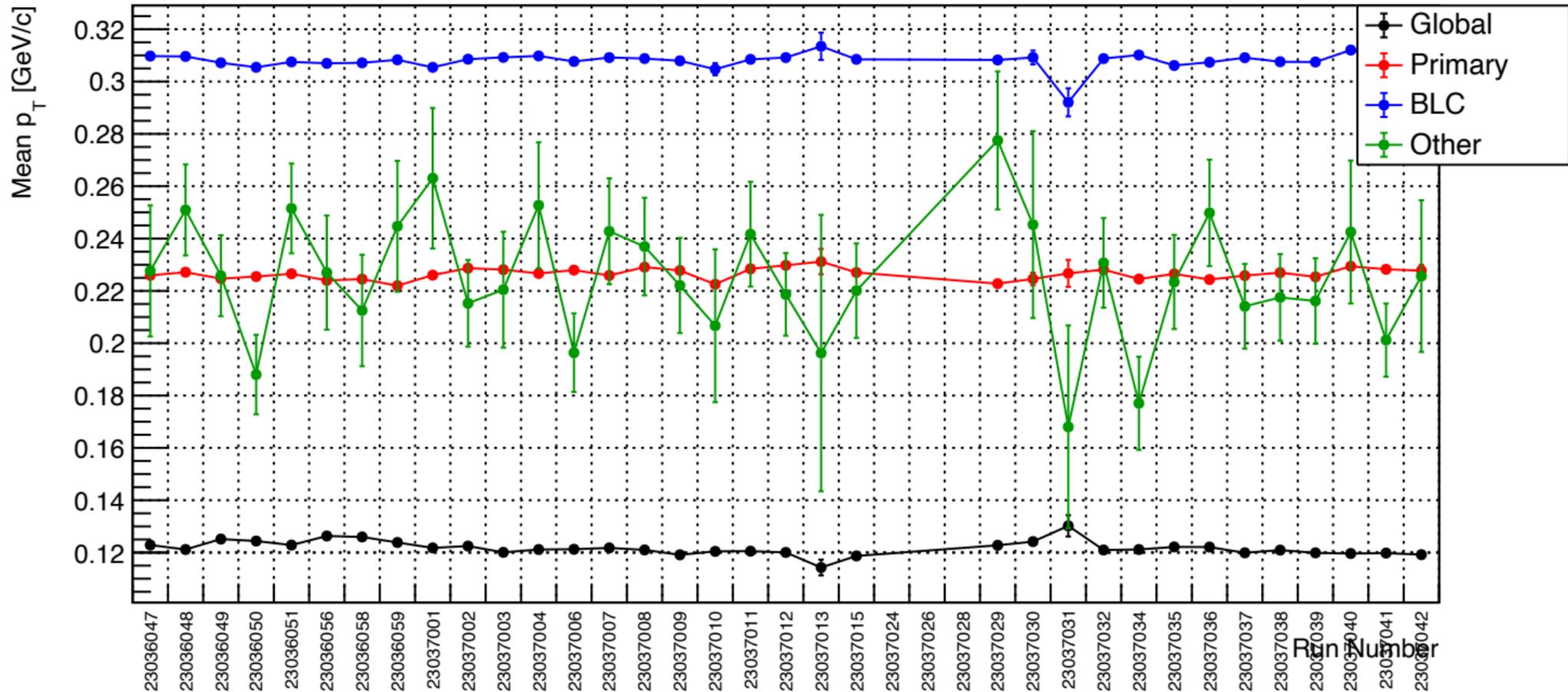
# Mean hPhi vs Run Number



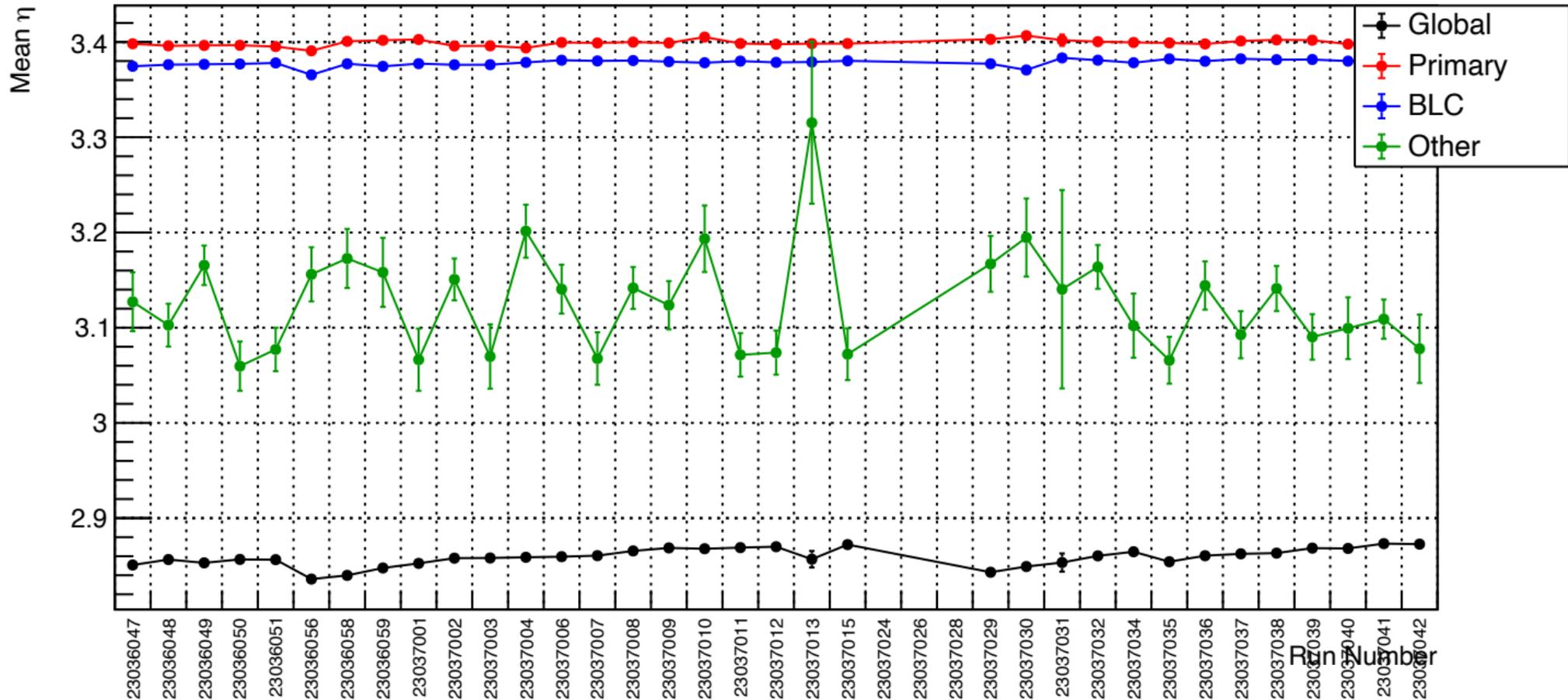
# Mean $p_T$ vs Run Number



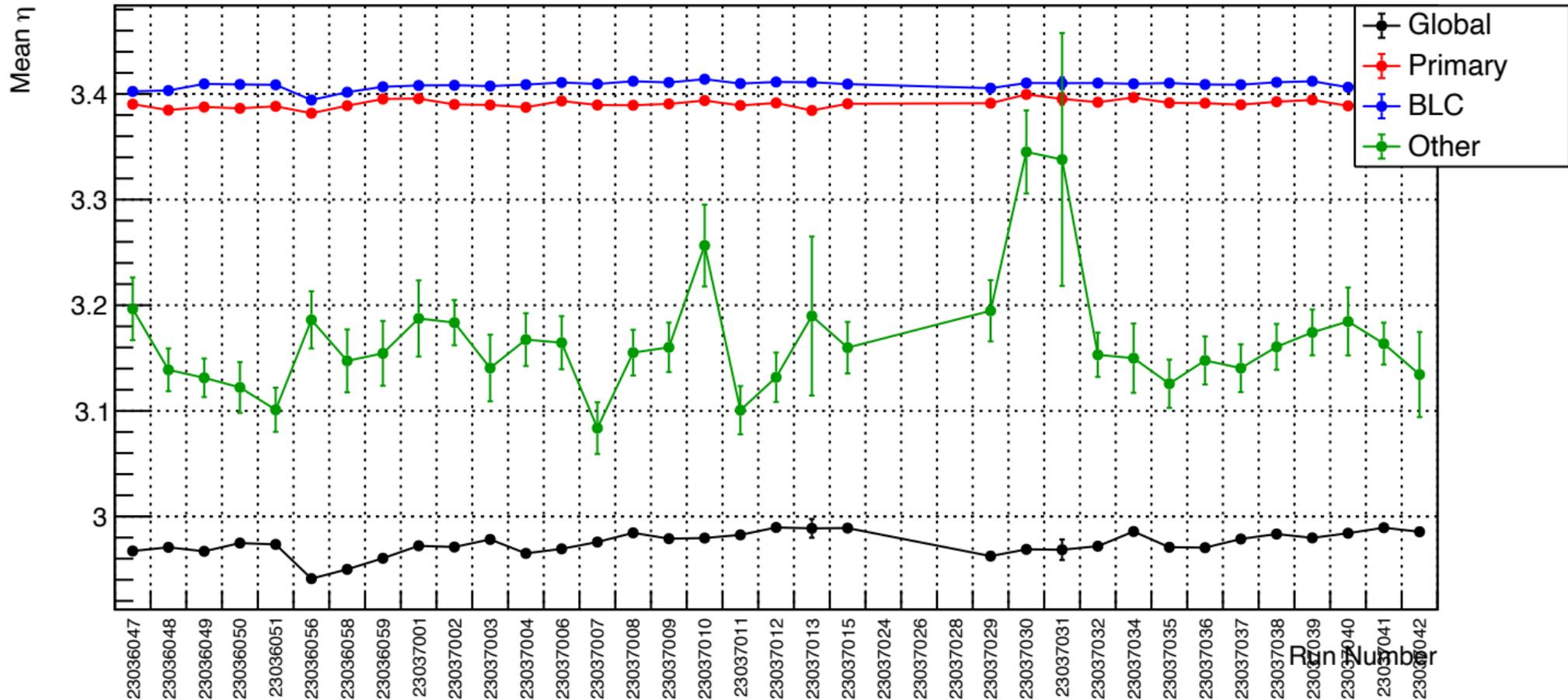
# Mean hPt\_neg vs Run Number



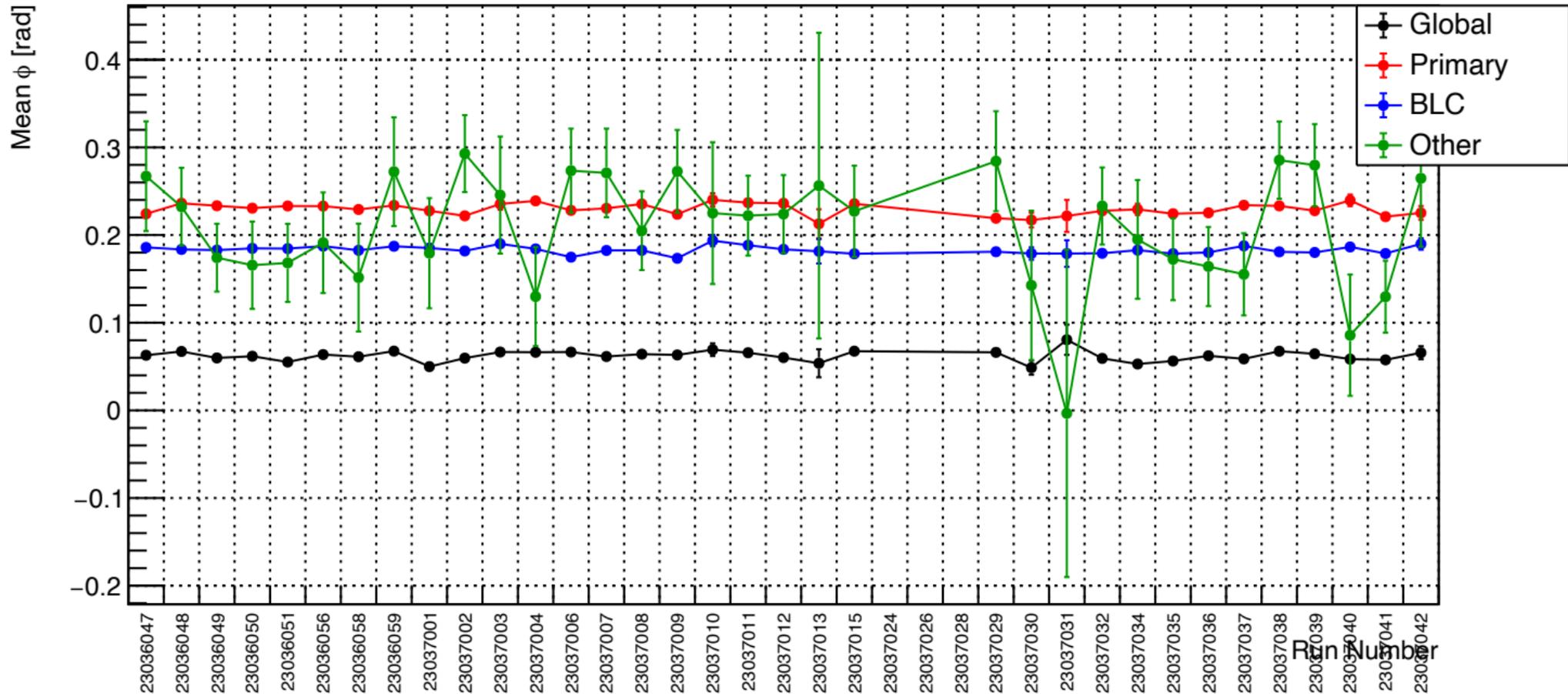
# Mean hEta\_pos vs Run Number



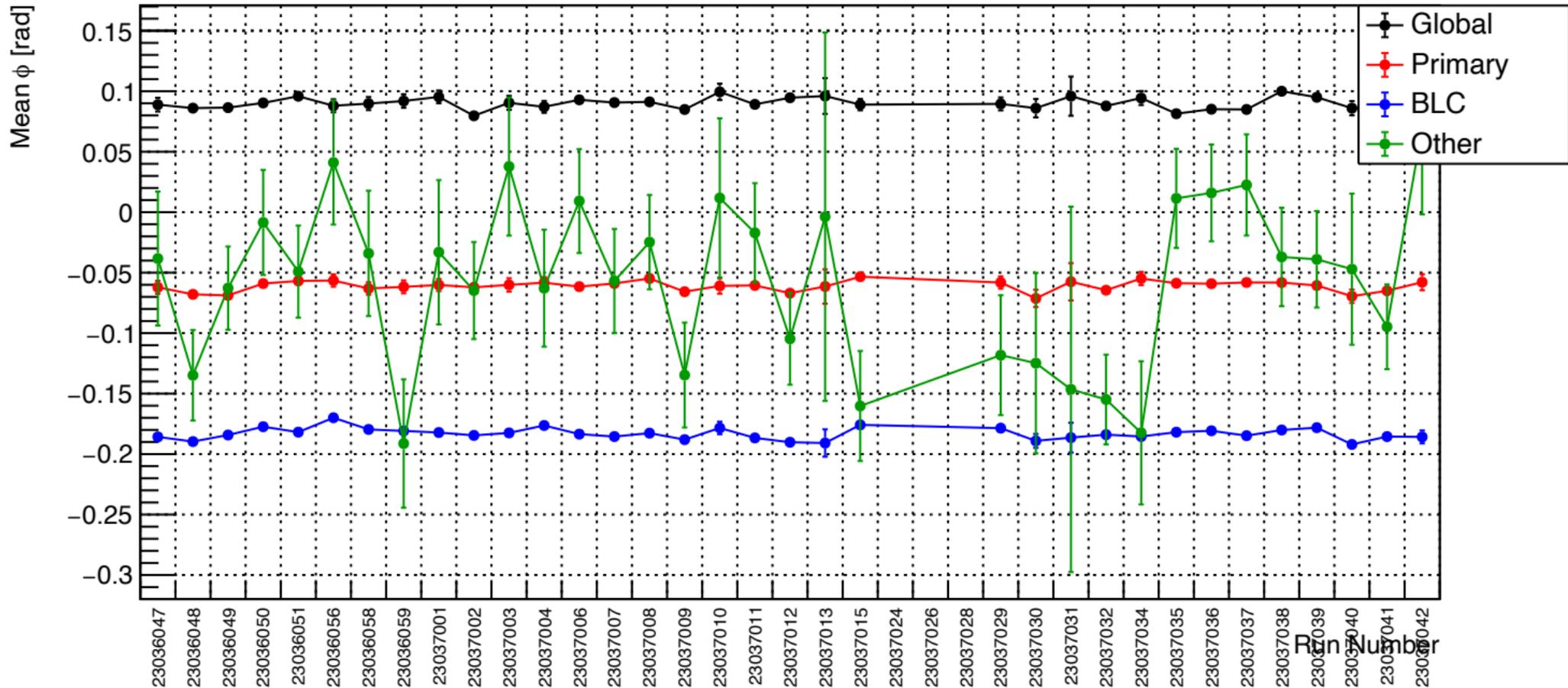
# Mean hEta\_neg vs Run Number



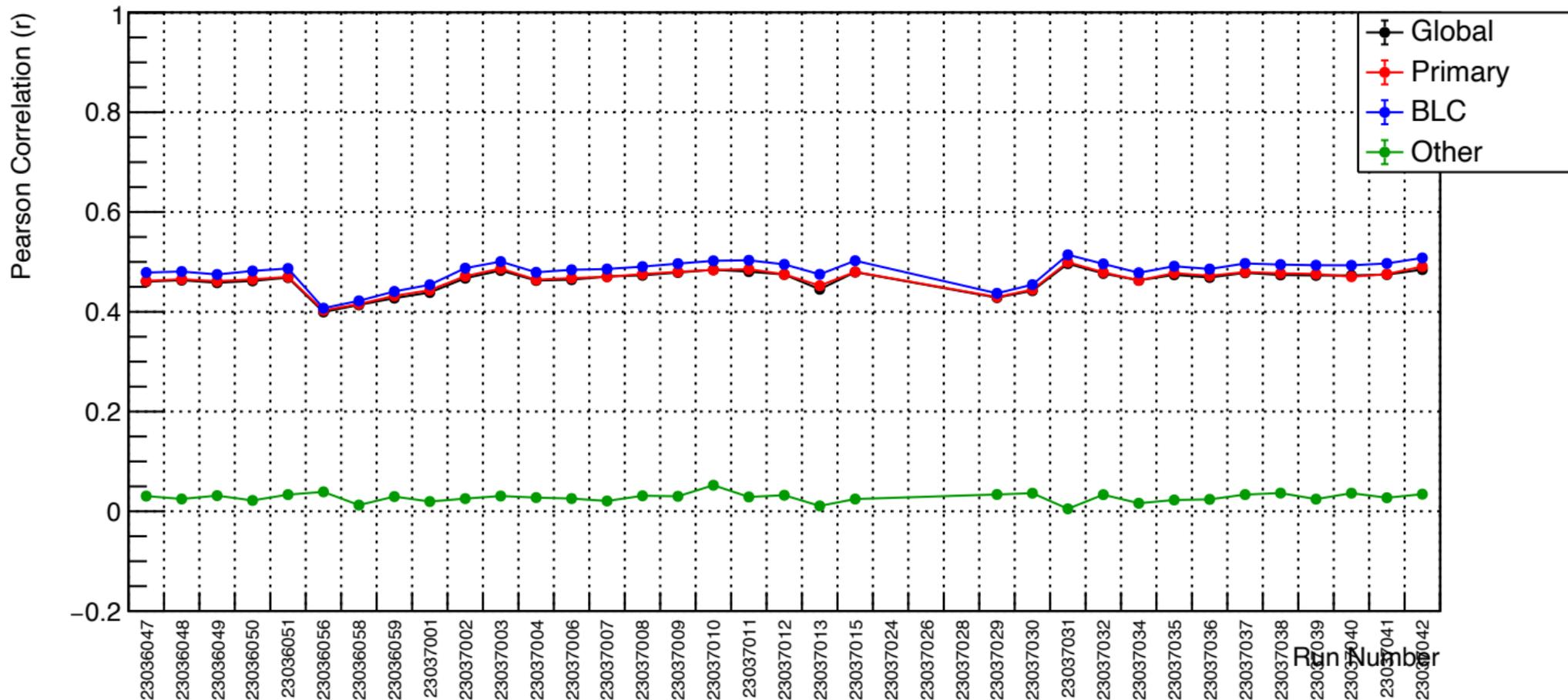
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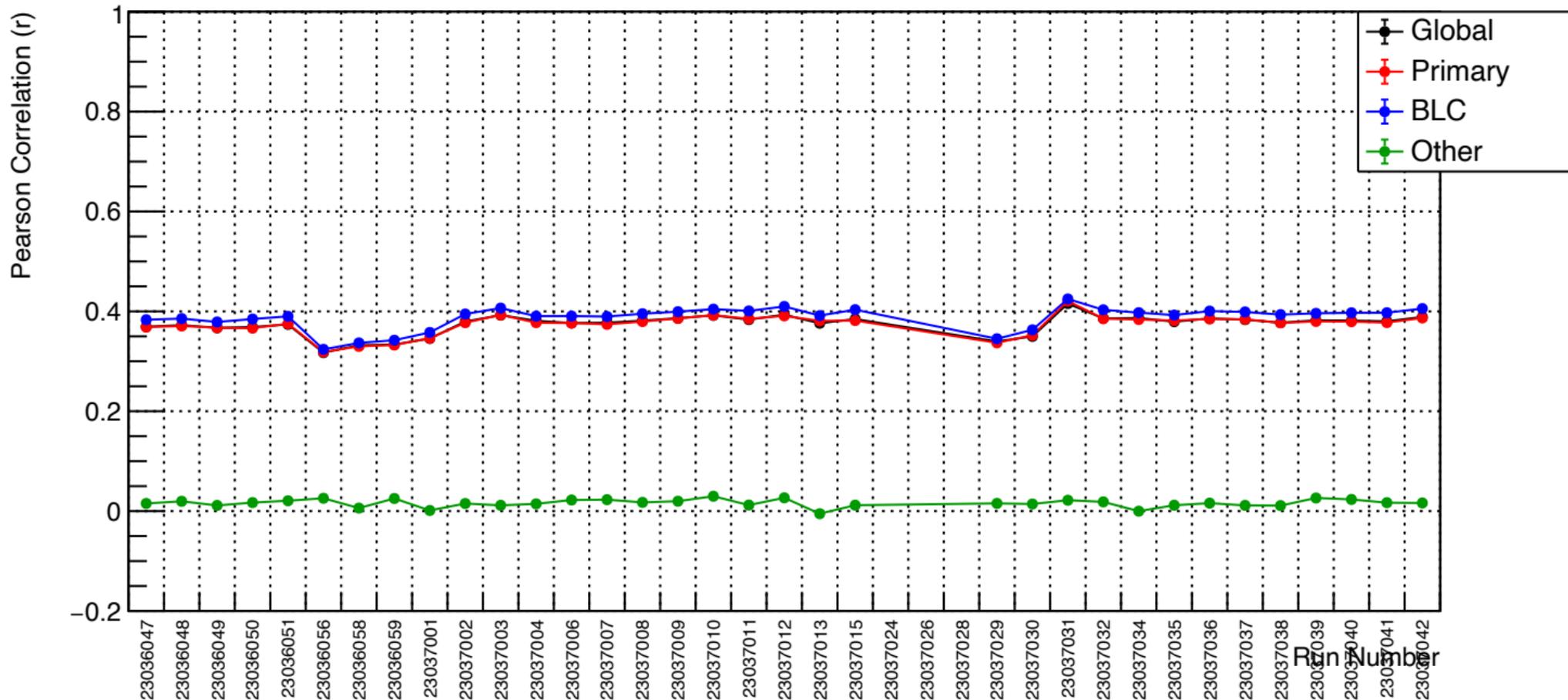
# Mean hPhi\_neg vs Run Number



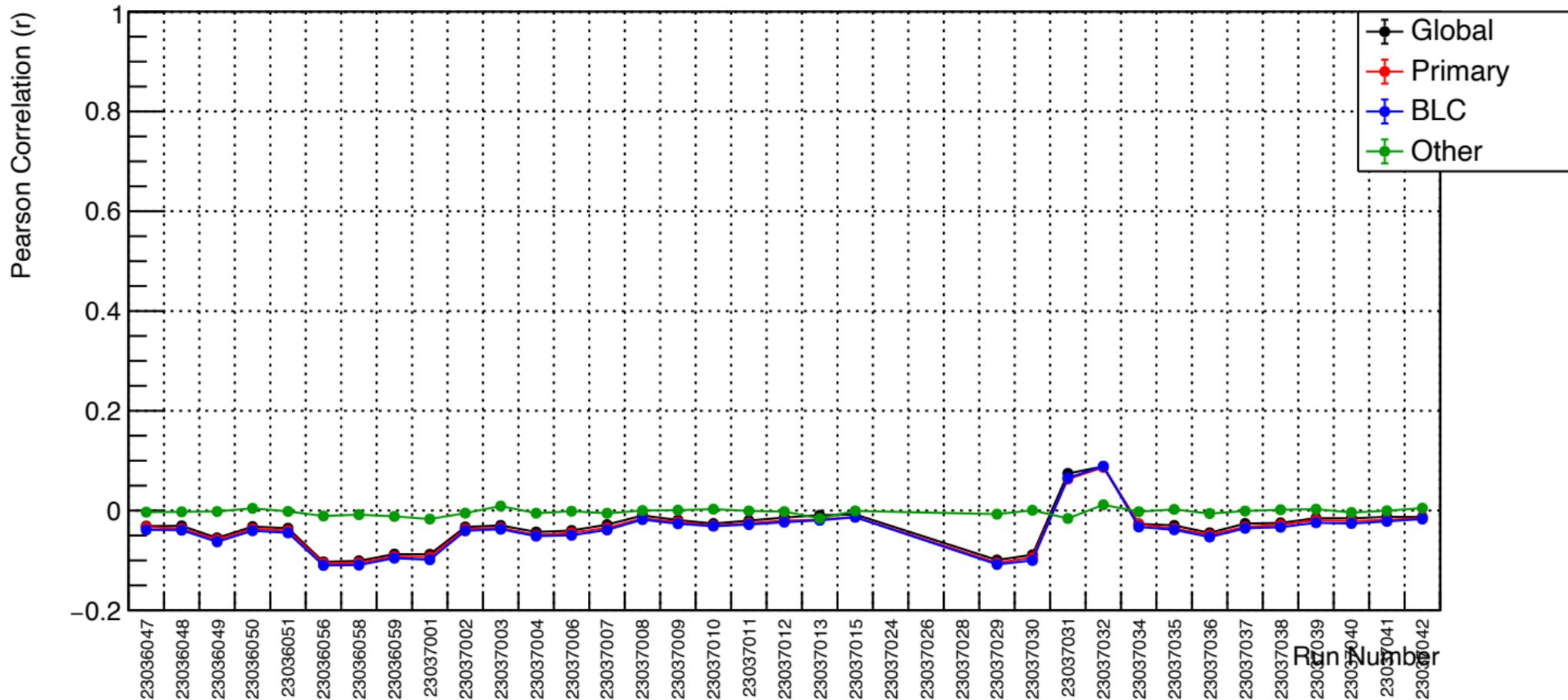
hMult\_vs\_nEcal vs Run Number



hMult\_vs\_nHcal vs Run Number



hMult\_vs\_nBTOFMatch vs Run Number



hMult\_vs\_refMult vs Run Number

