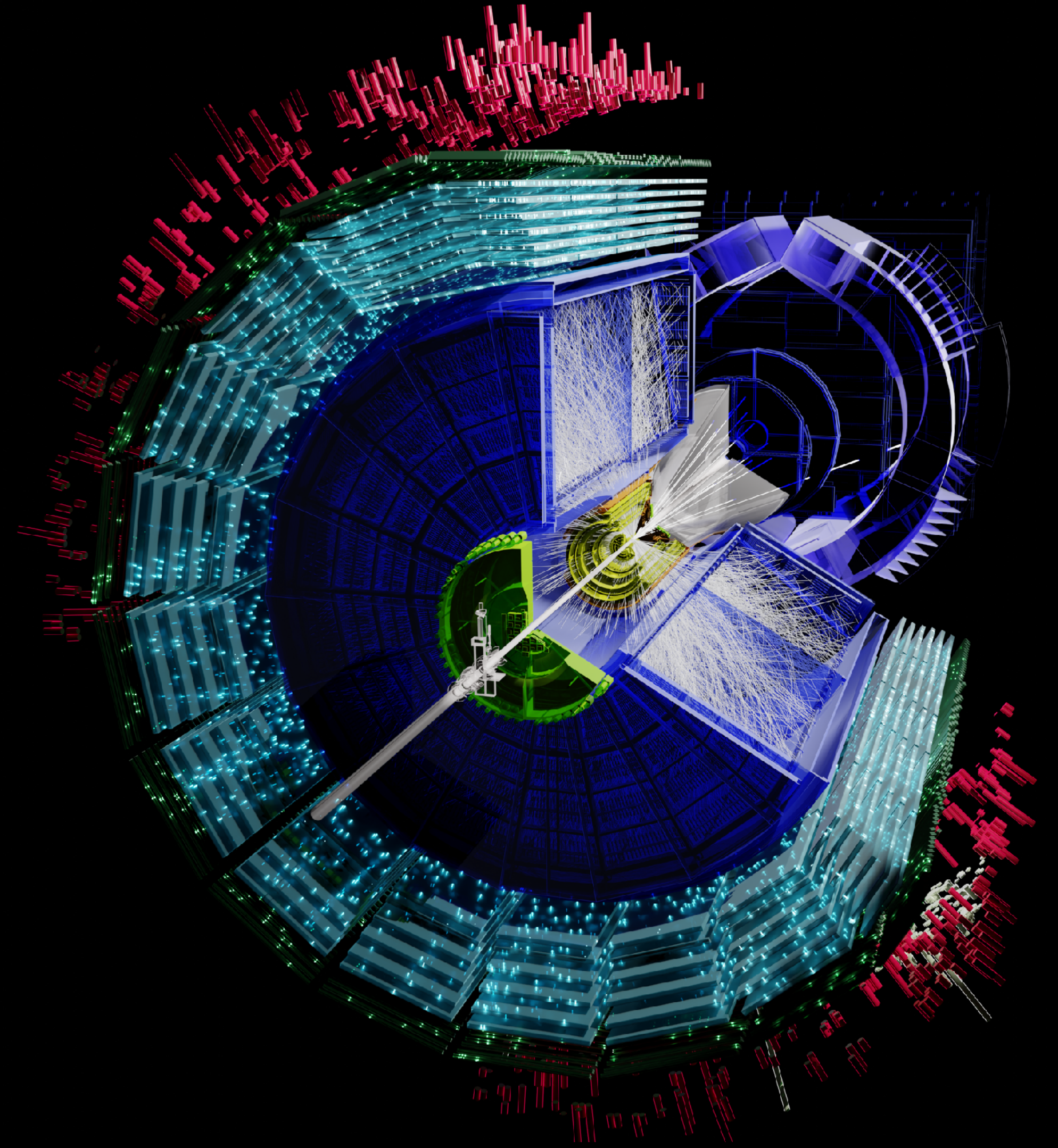


Updates on clusterization

GPU meeting – 28.03.2024

Christian Sonnabend



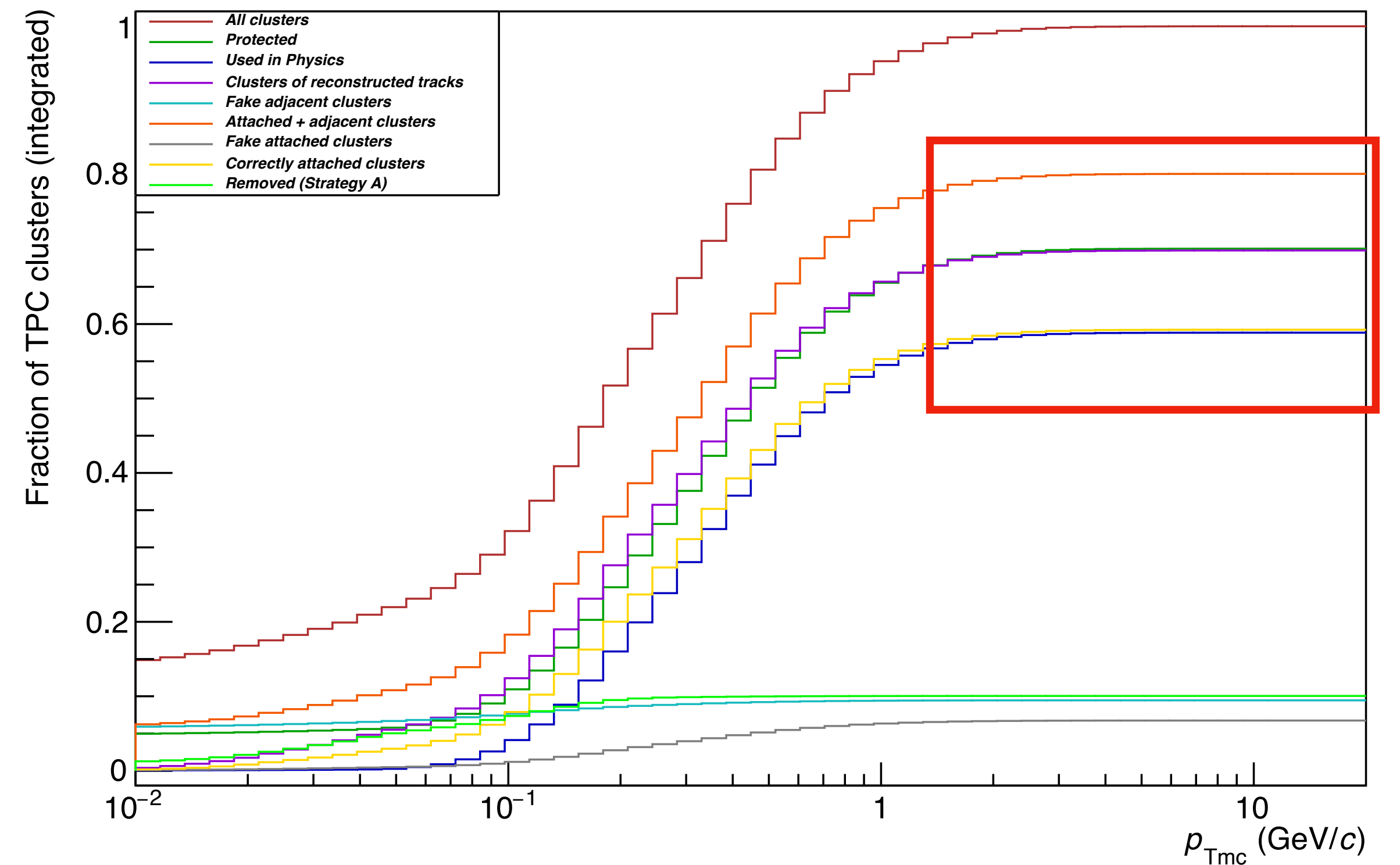
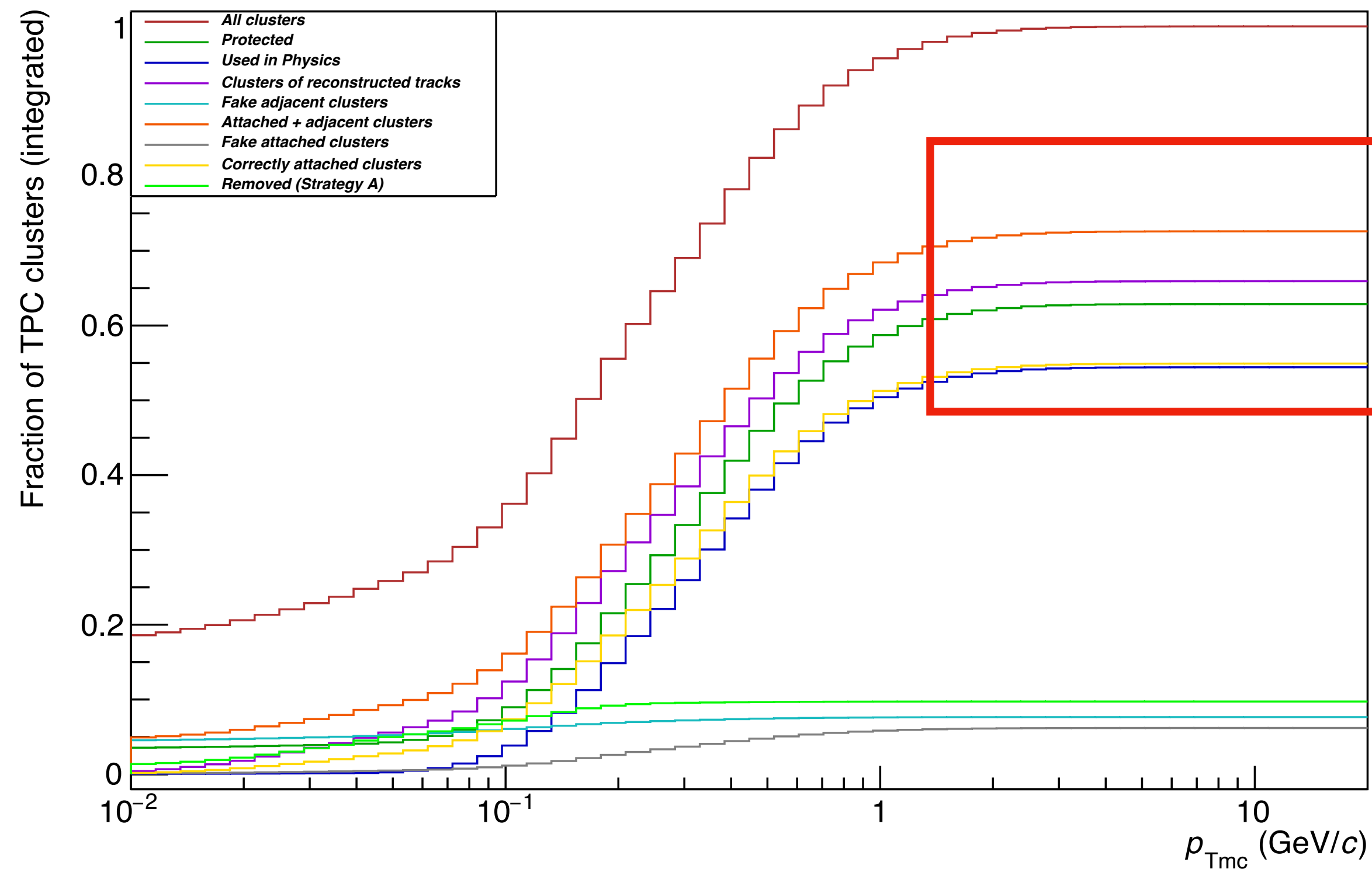
Tracking efficiency plots

Native

Network

Clusters Pt Distribution / Attachment (integrated)

Clusters Pt Distribution / Attachment (integrated)



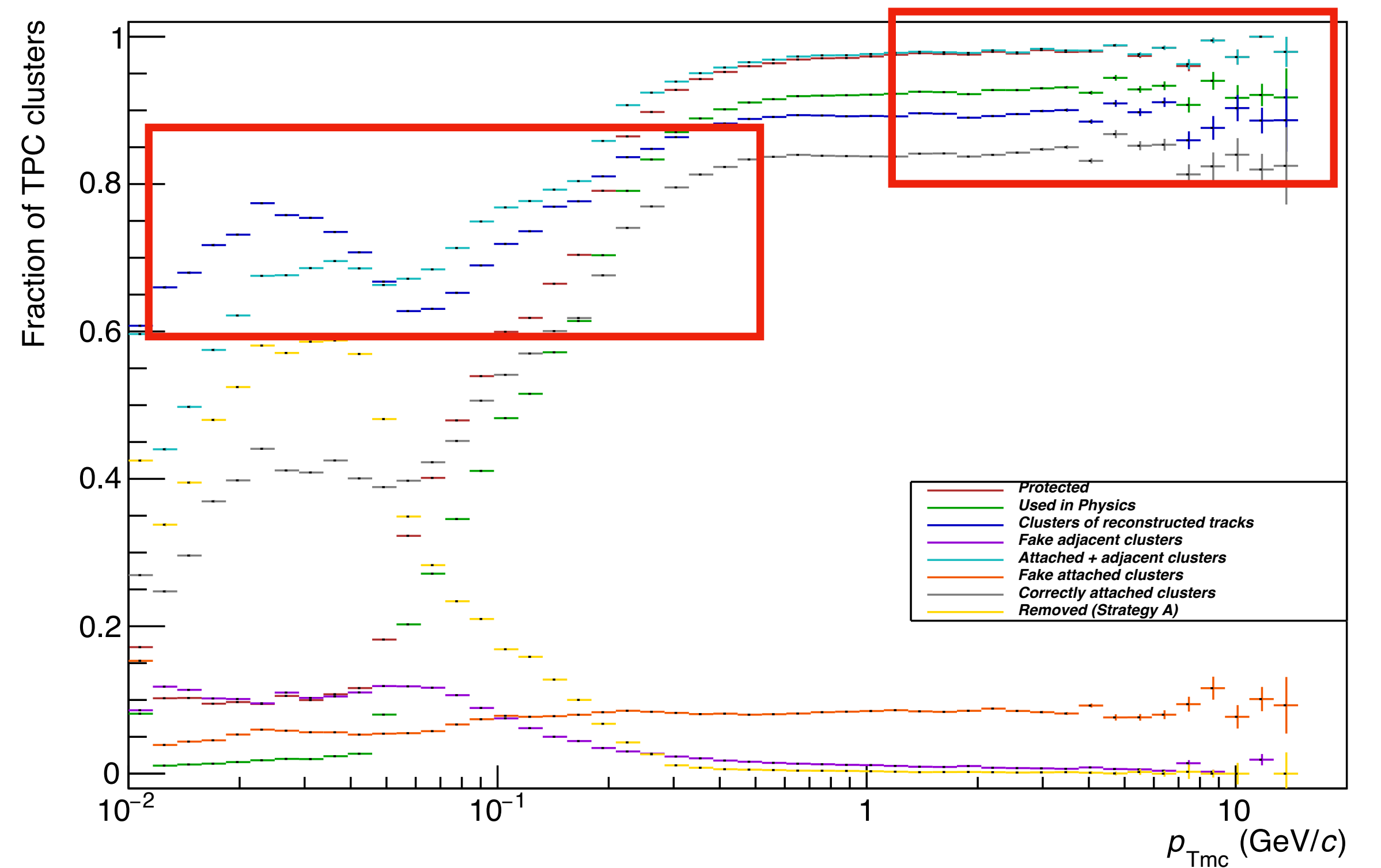
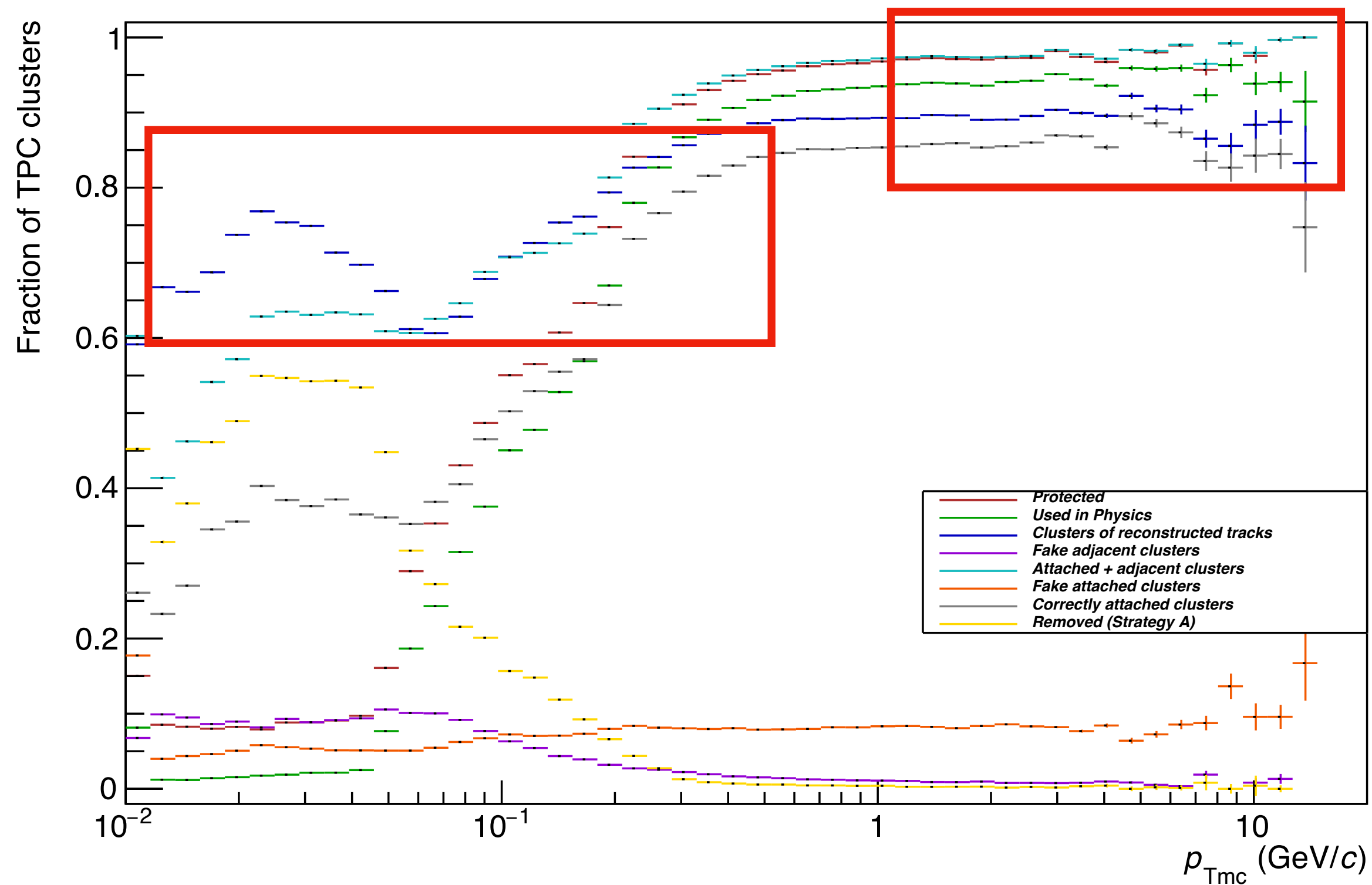
Tracking efficiency plots

Native

Network

Clusters Pt Distribution / Attachment (relative to all clusters)

Clusters Pt Distribution / Attachment (relative to all clusters)



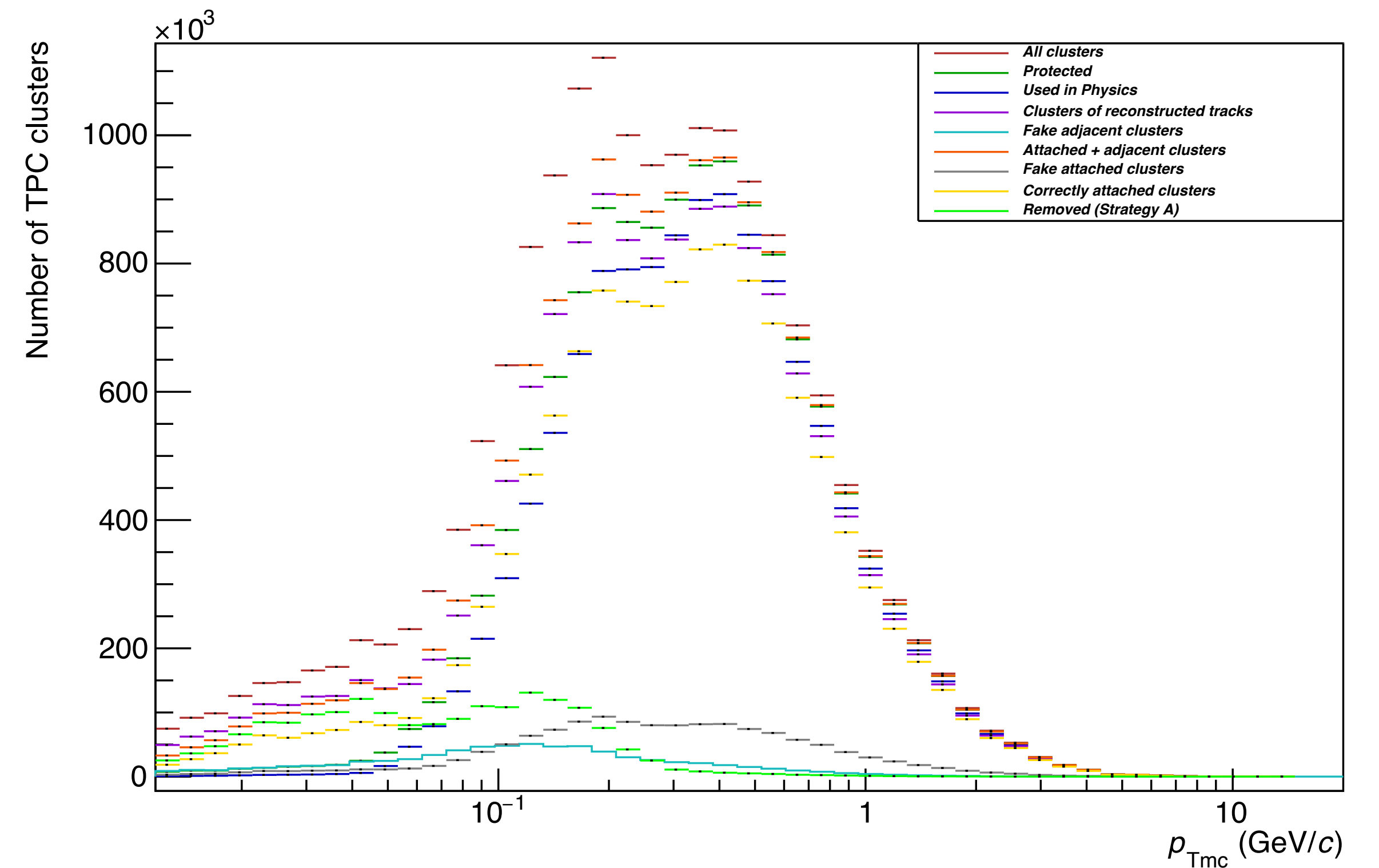
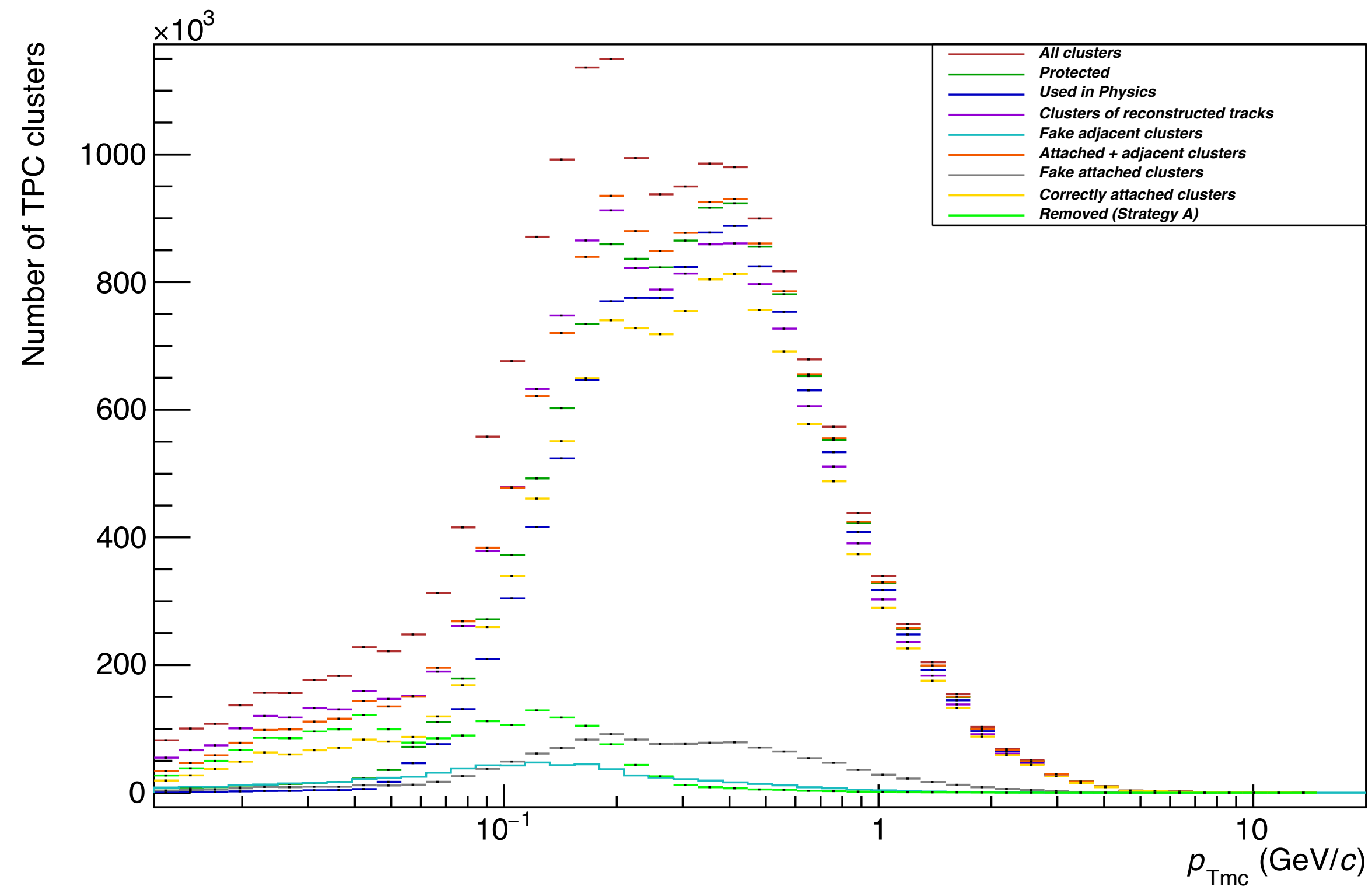
Tracking efficiency plots

Native

Network

Clusters Pt Distribution / Attachment

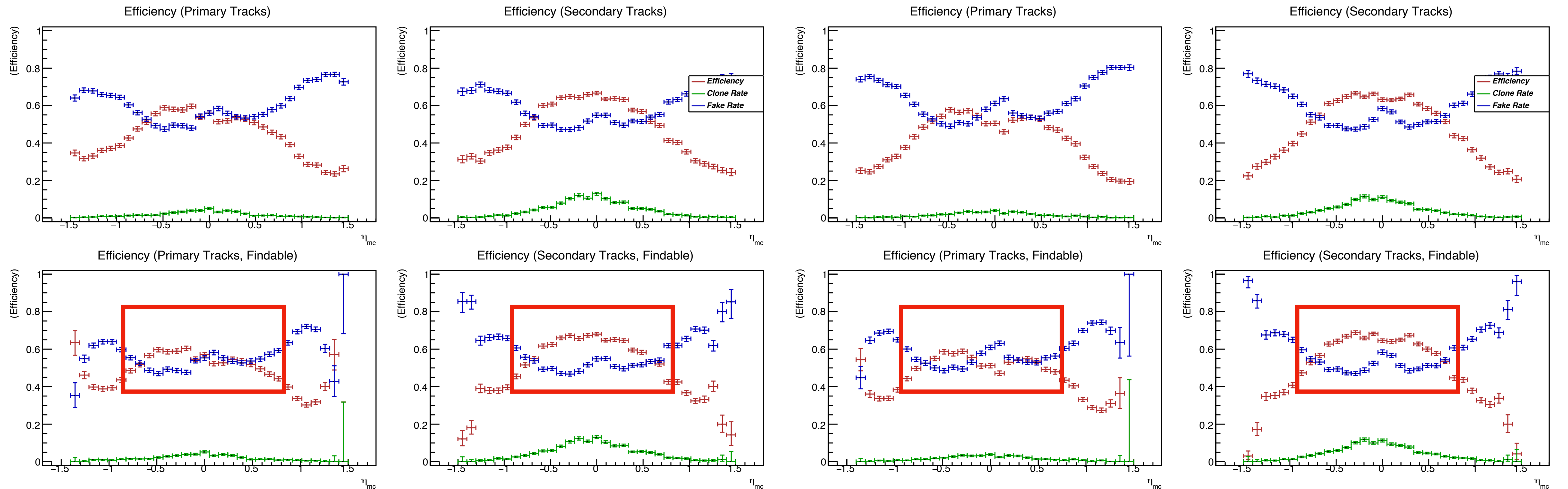
Clusters Pt Distribution / Attachment



Tracking efficiency plots

Native

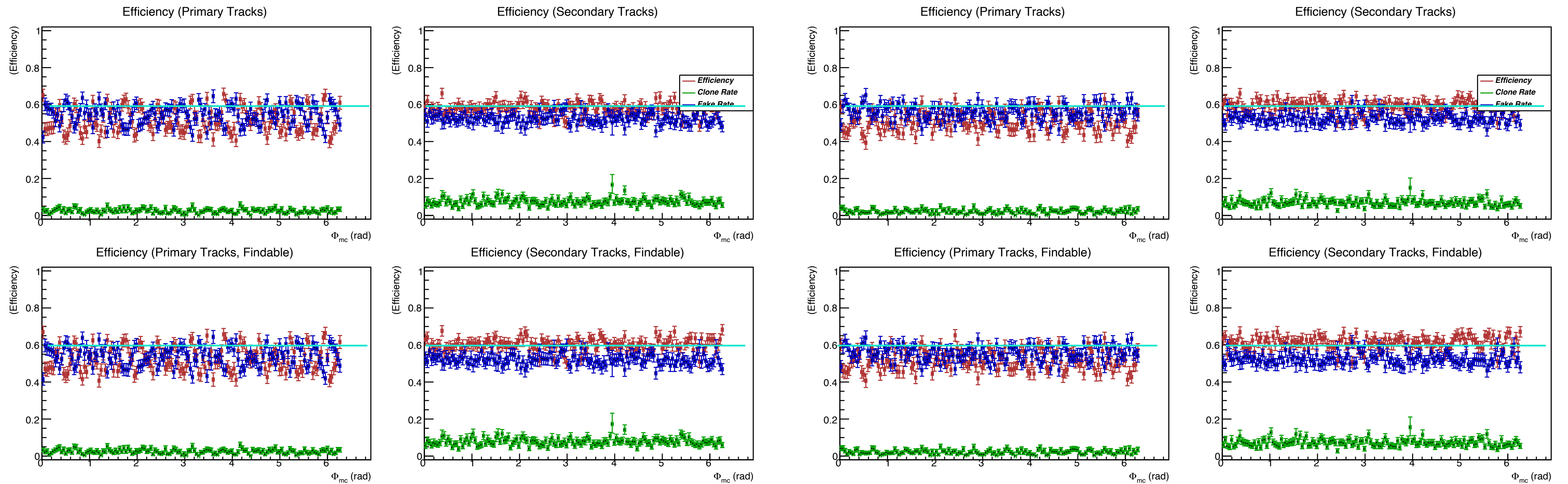
Network



Tracking efficiency plots

Native

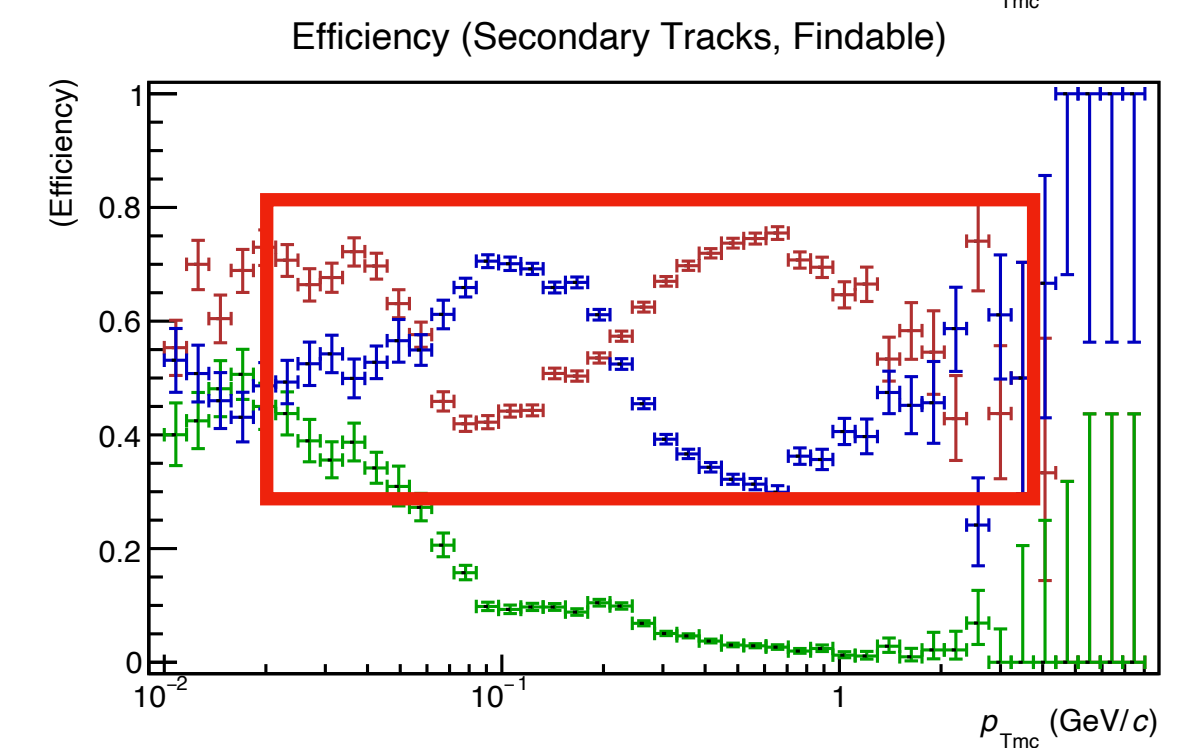
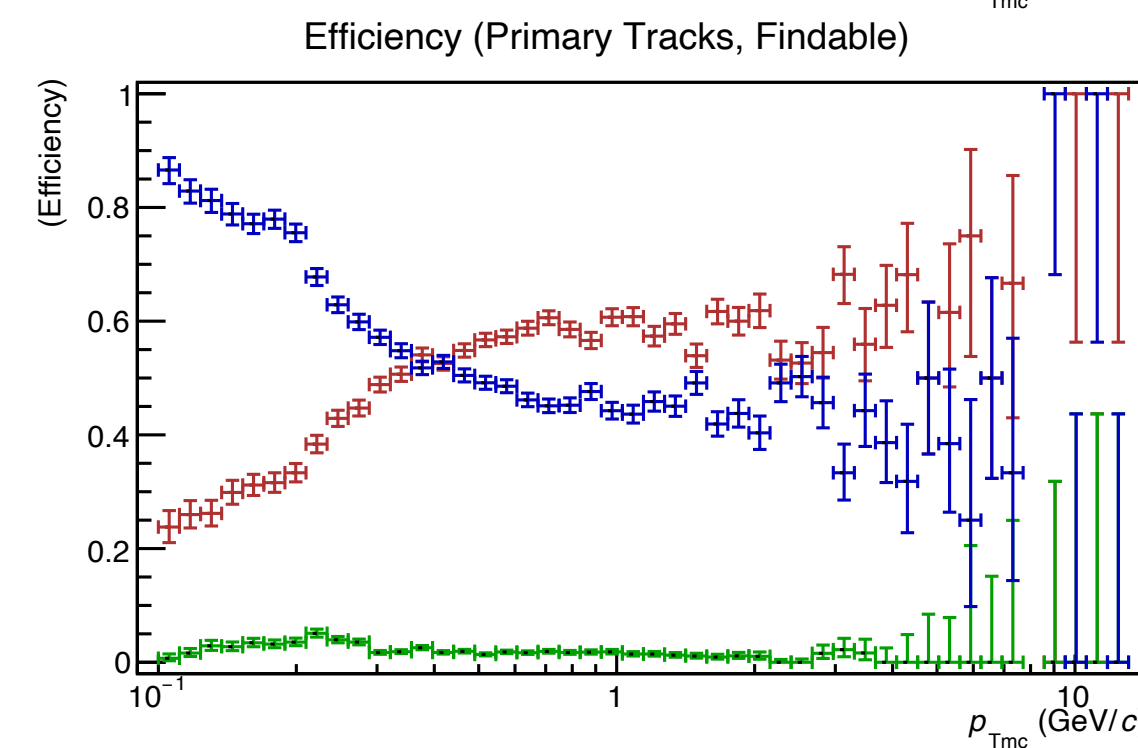
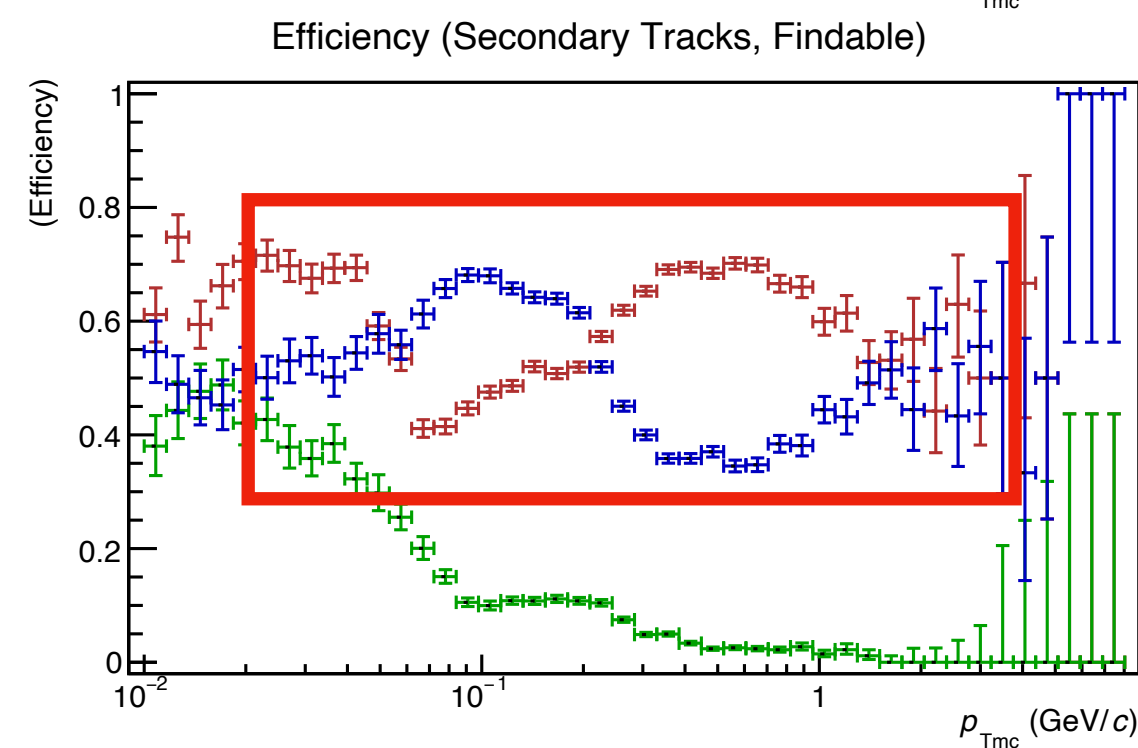
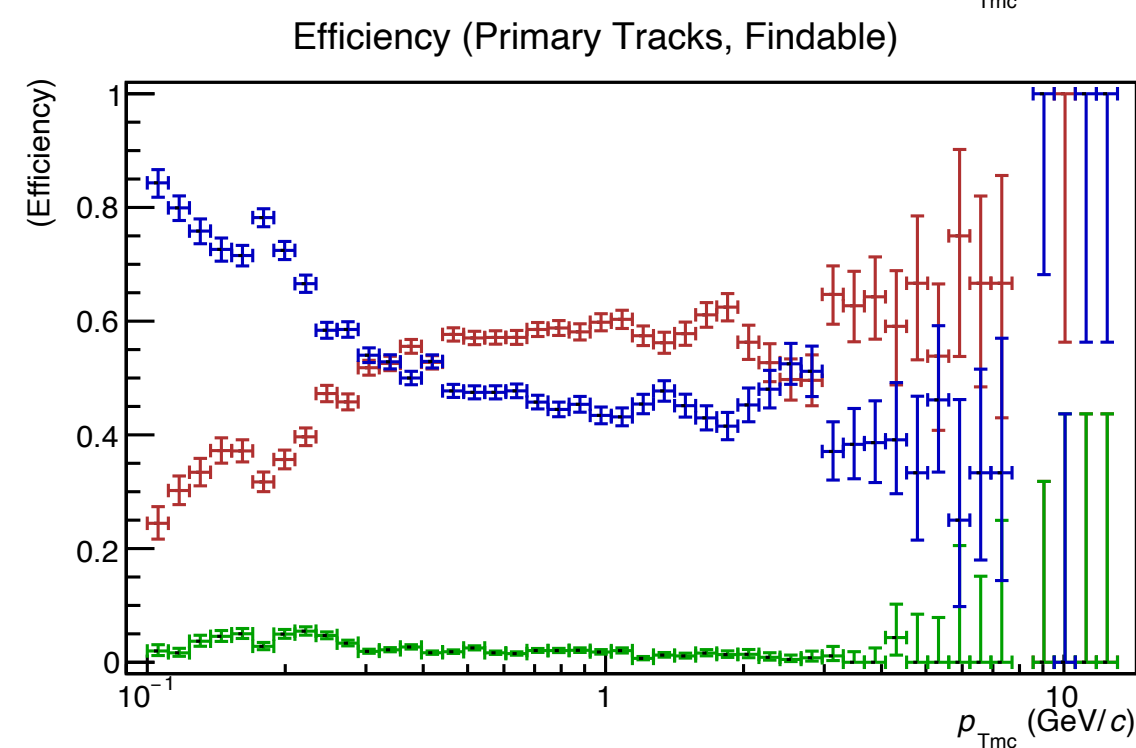
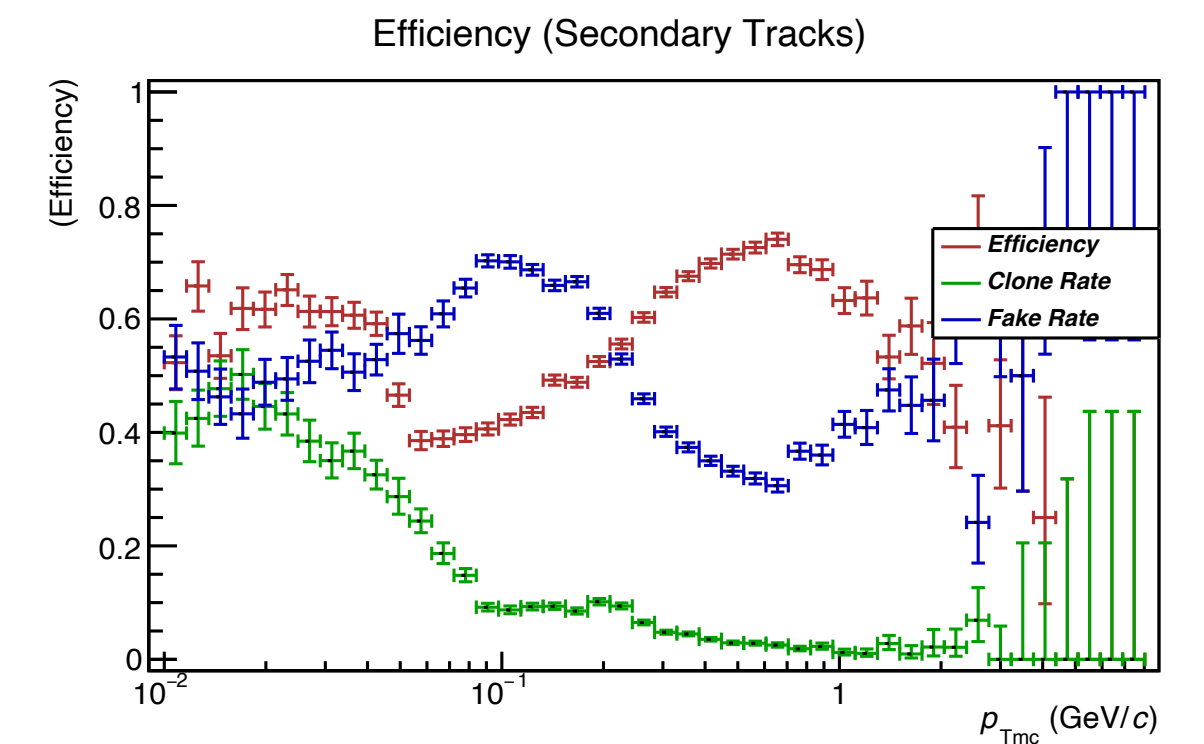
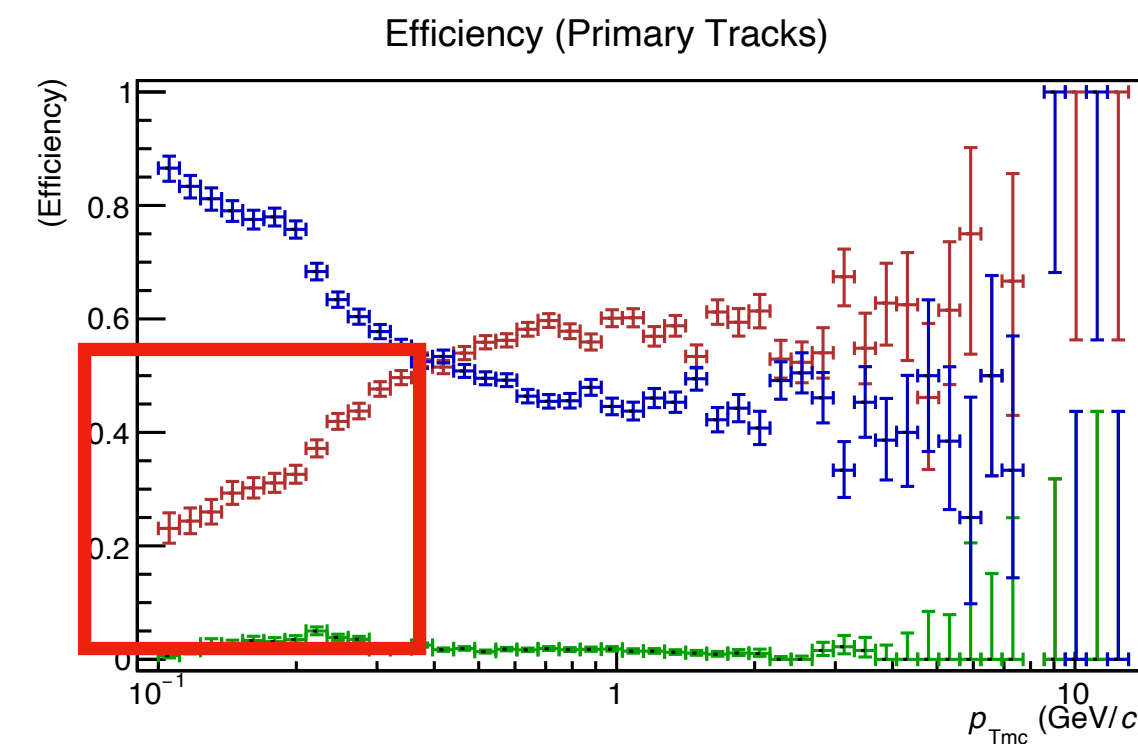
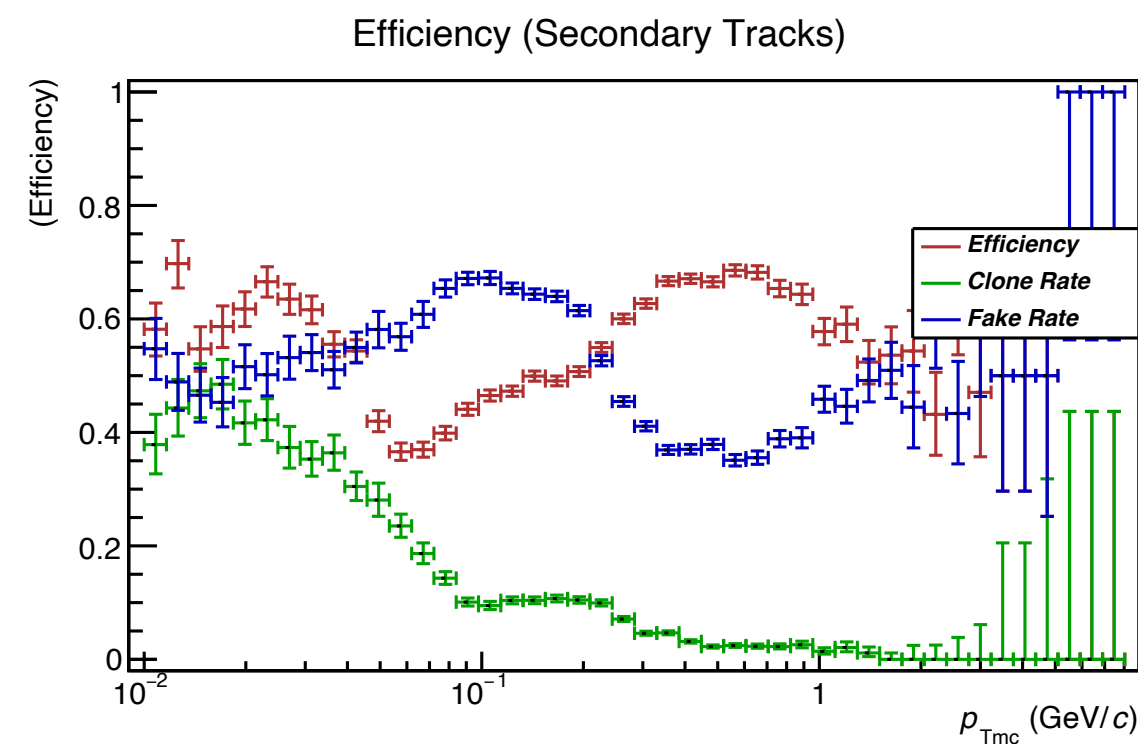
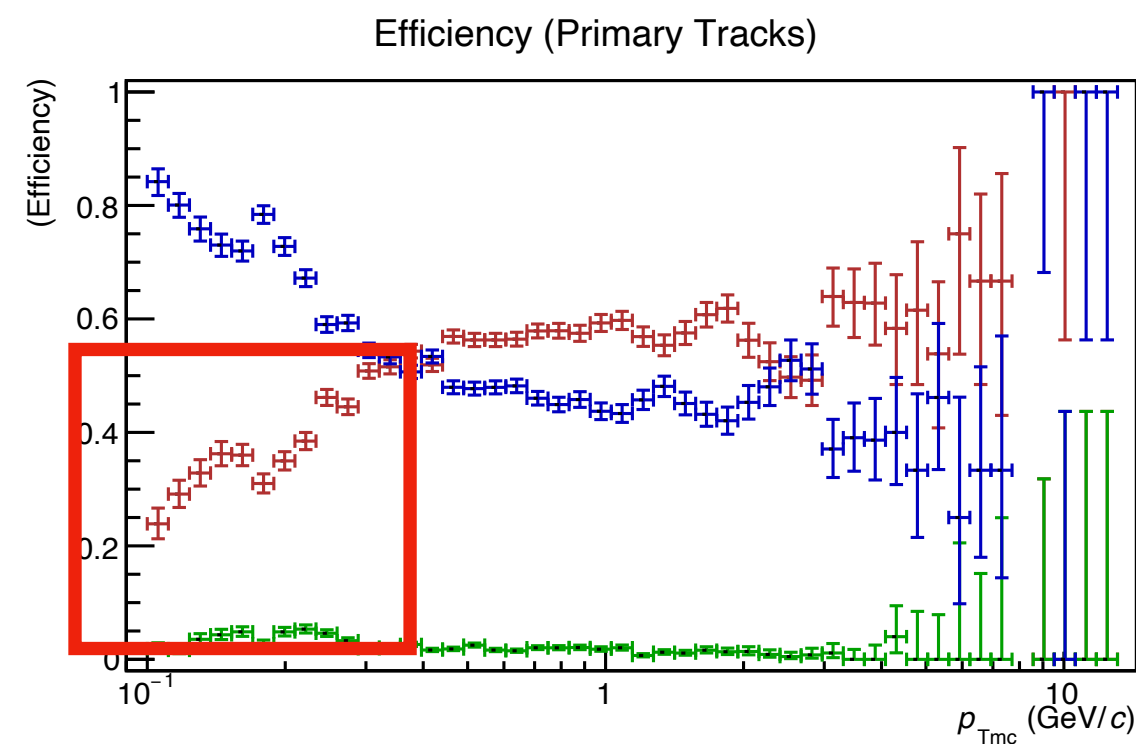
Network



Tracking efficiency plots

Native

Network



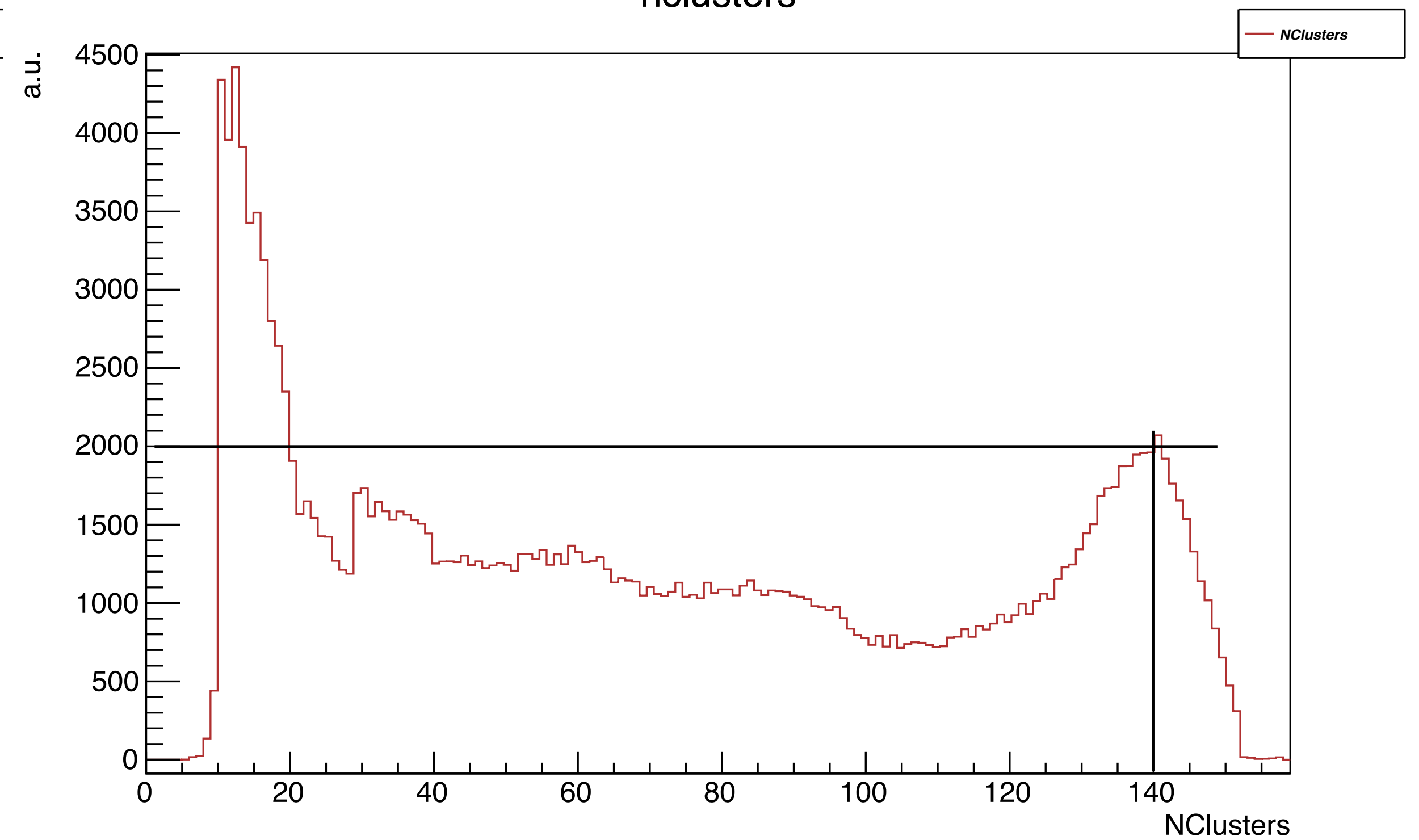
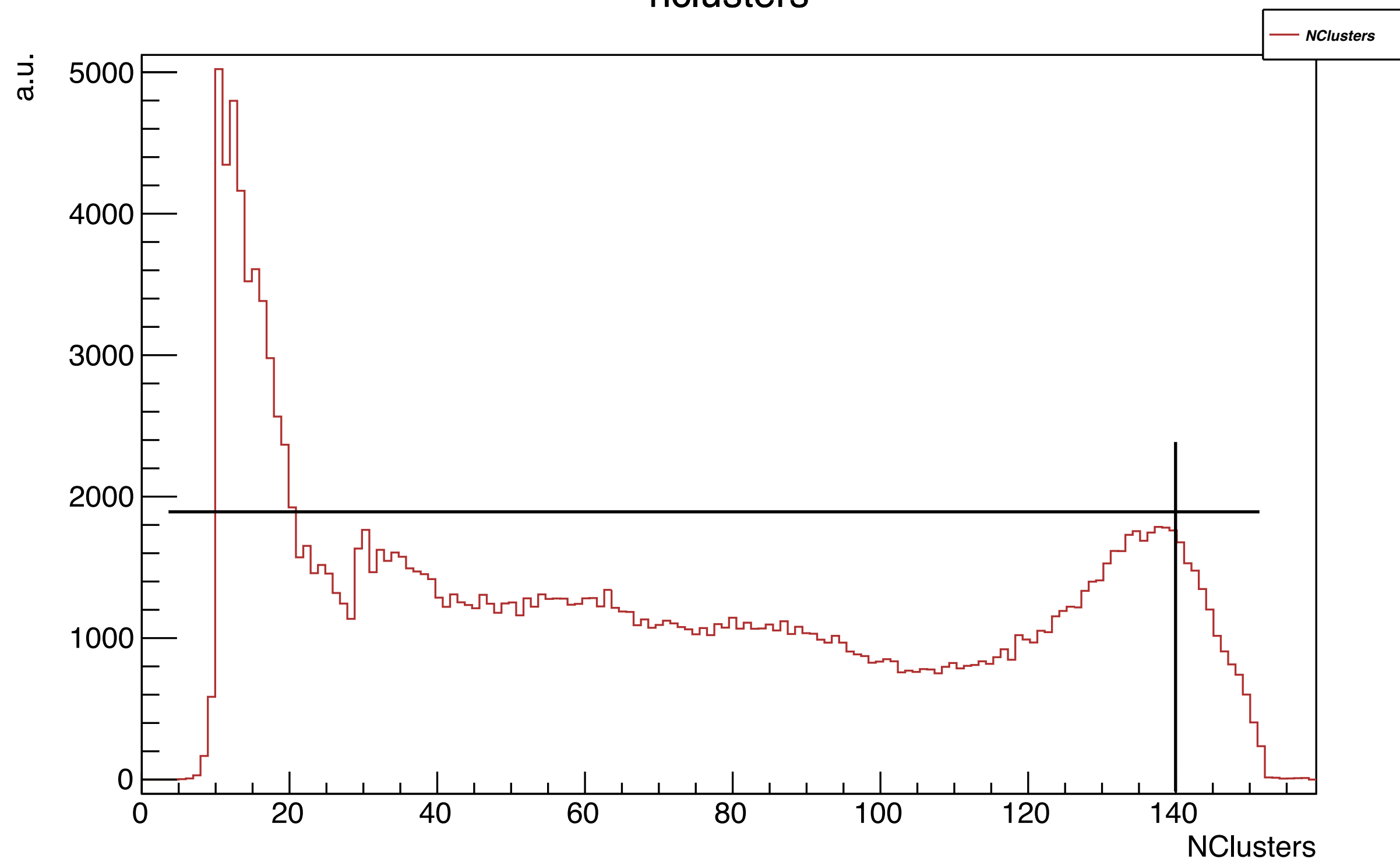
Tracking efficiency plots

Native

Network

nclusters

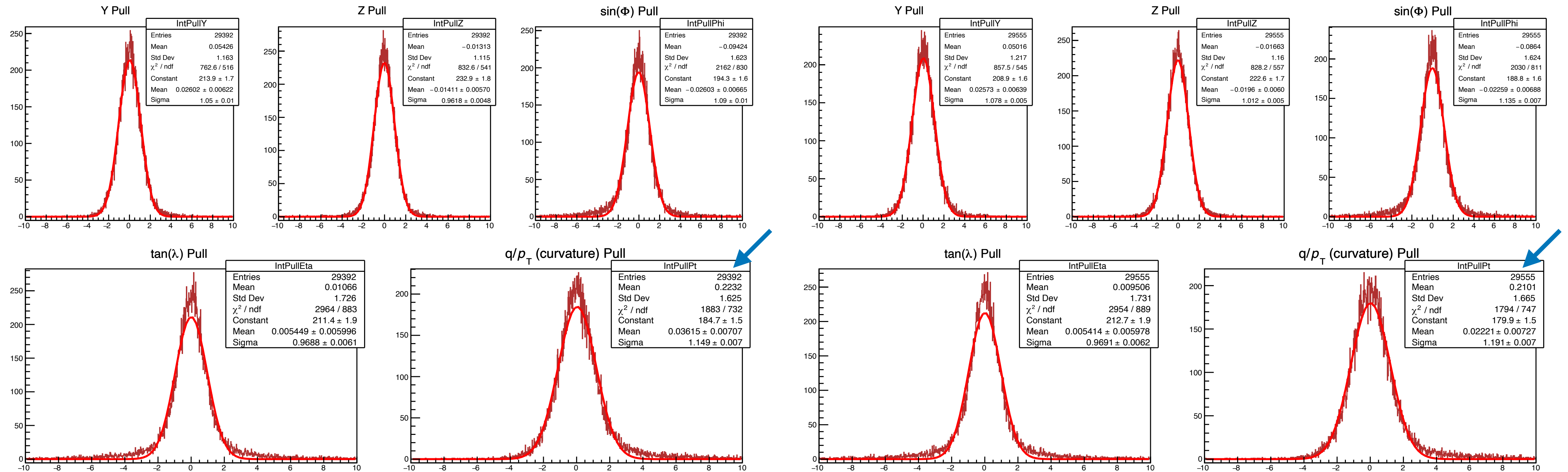
nclusters



Tracking efficiency plots

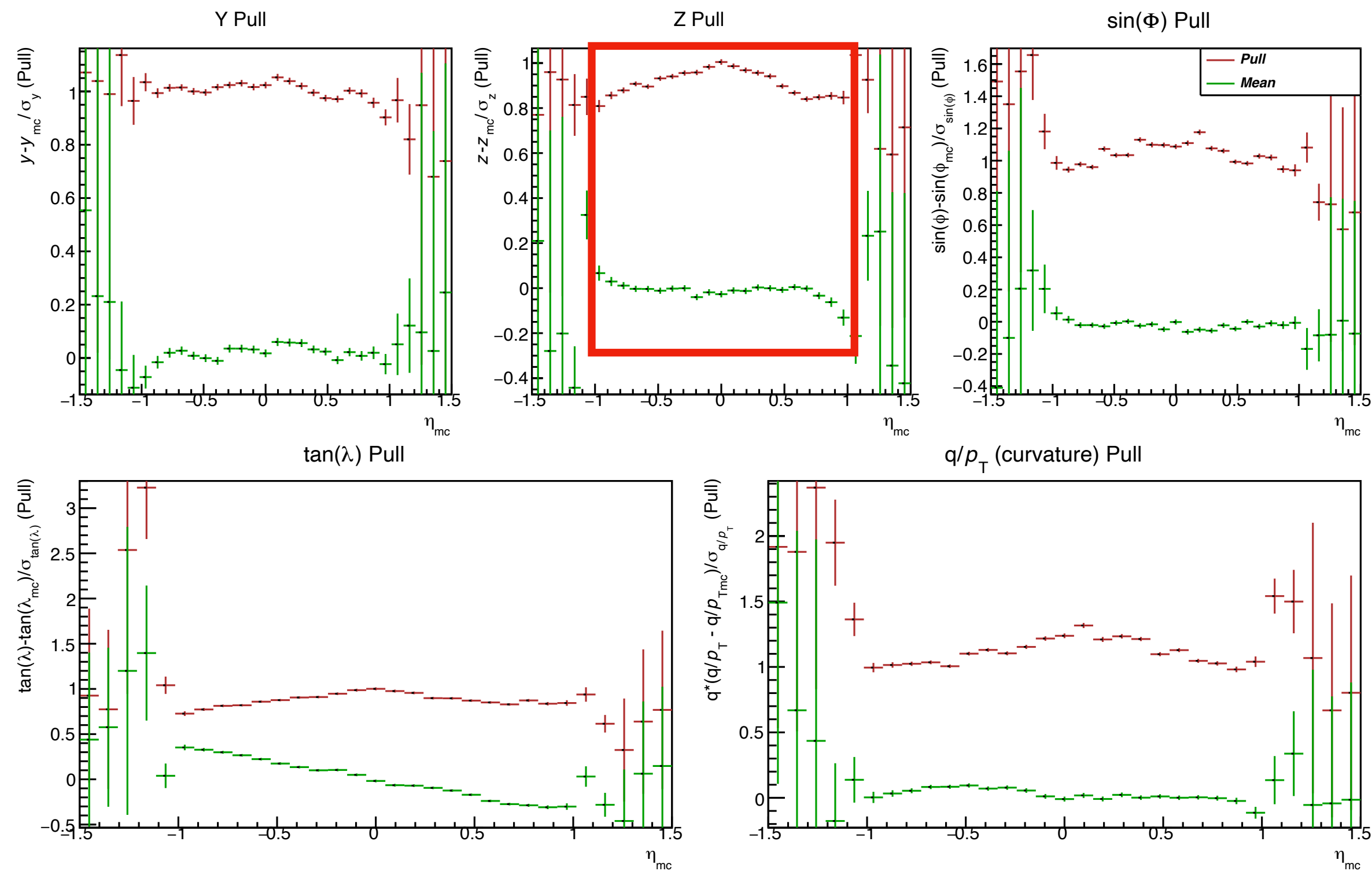
Native

Network

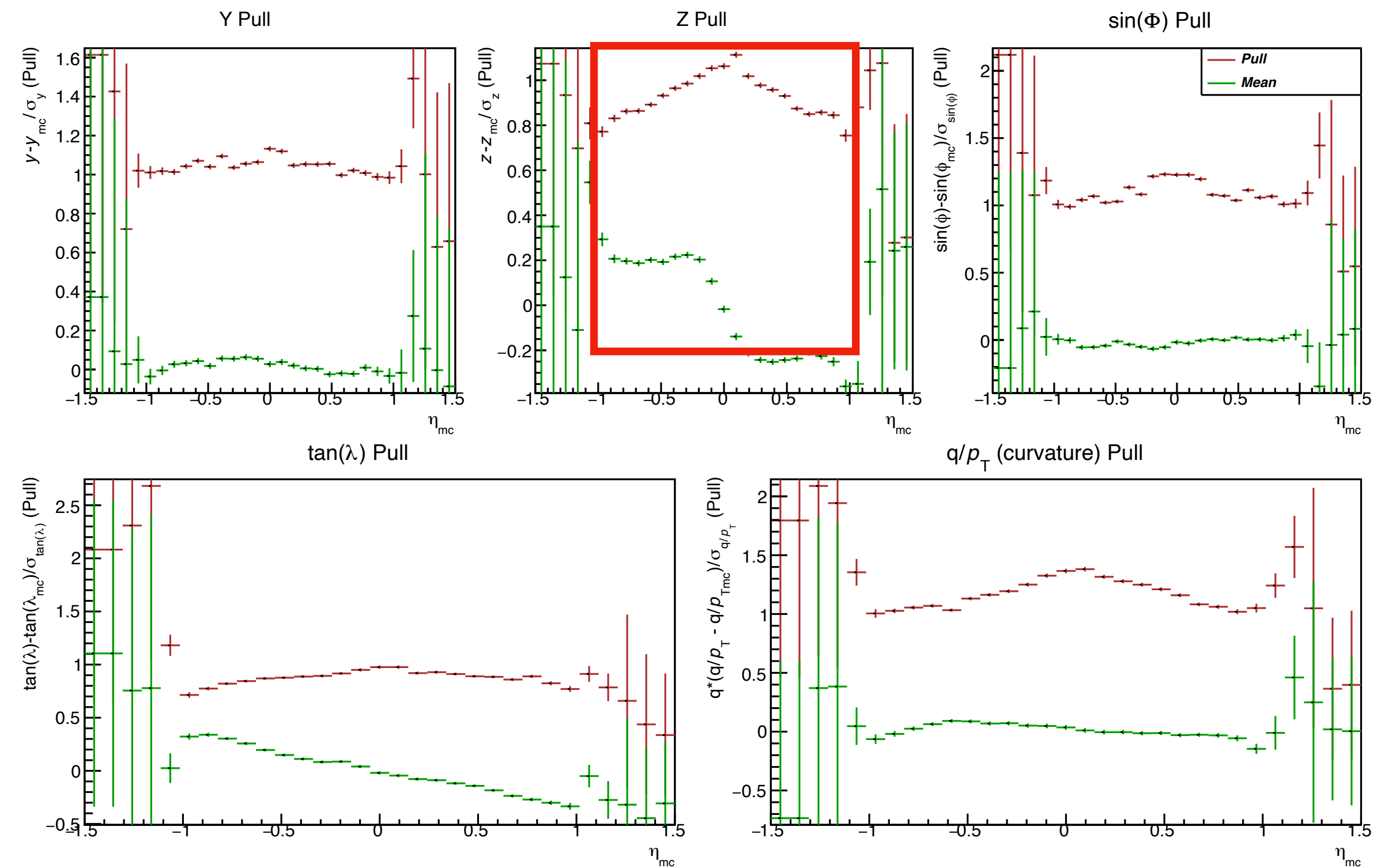


Tracking efficiency plots

Native

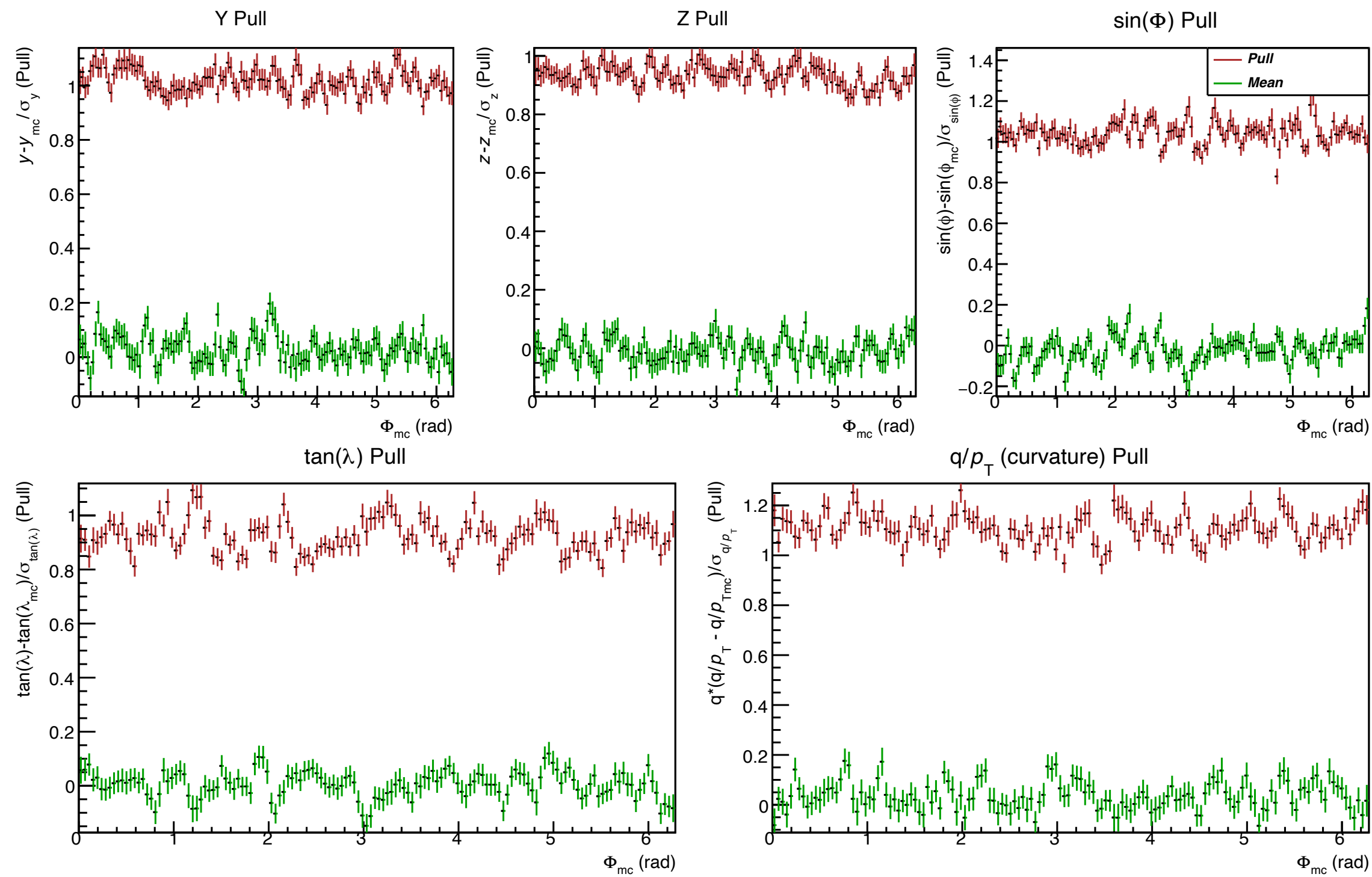


Network

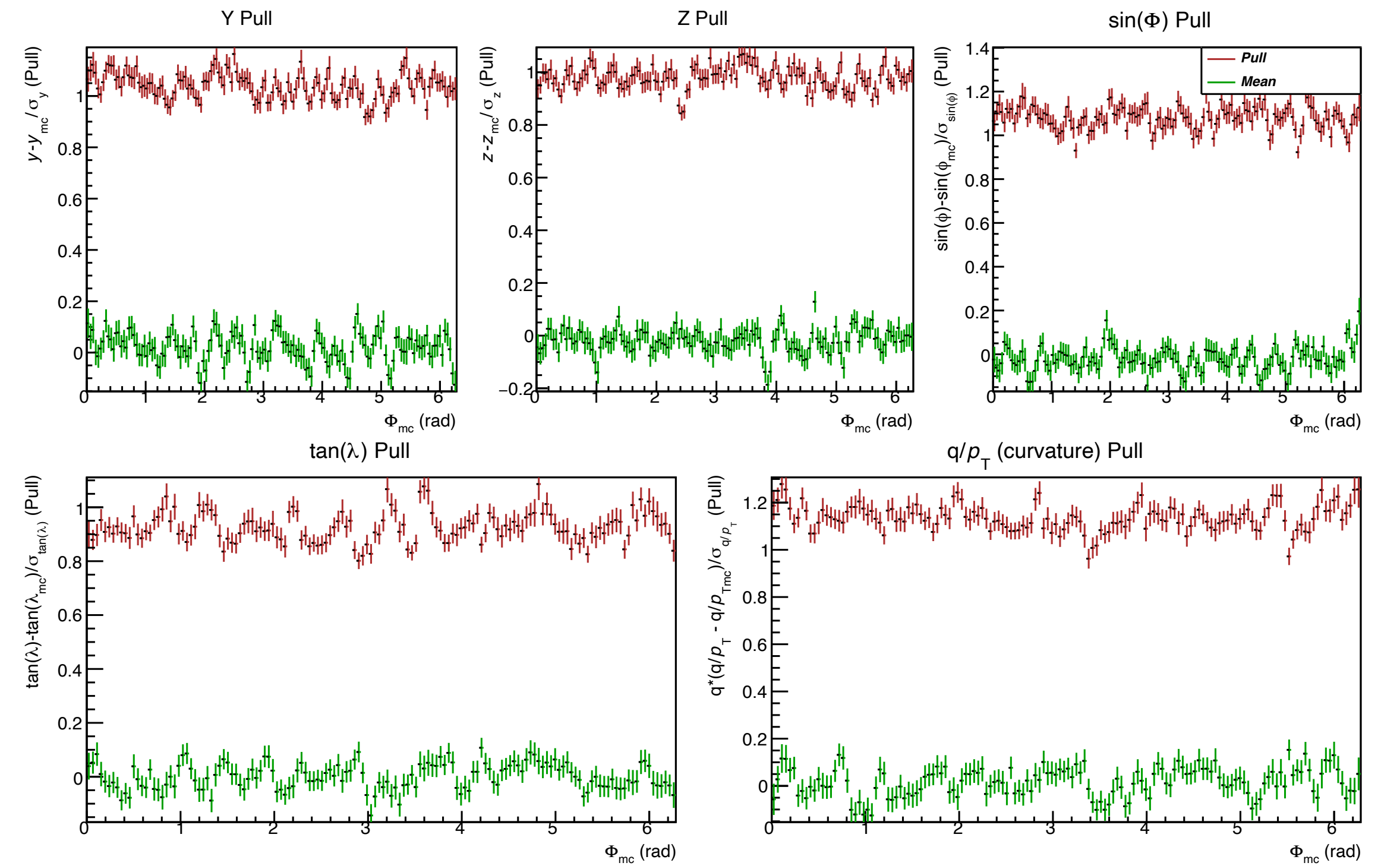


Tracking efficiency plots

Native



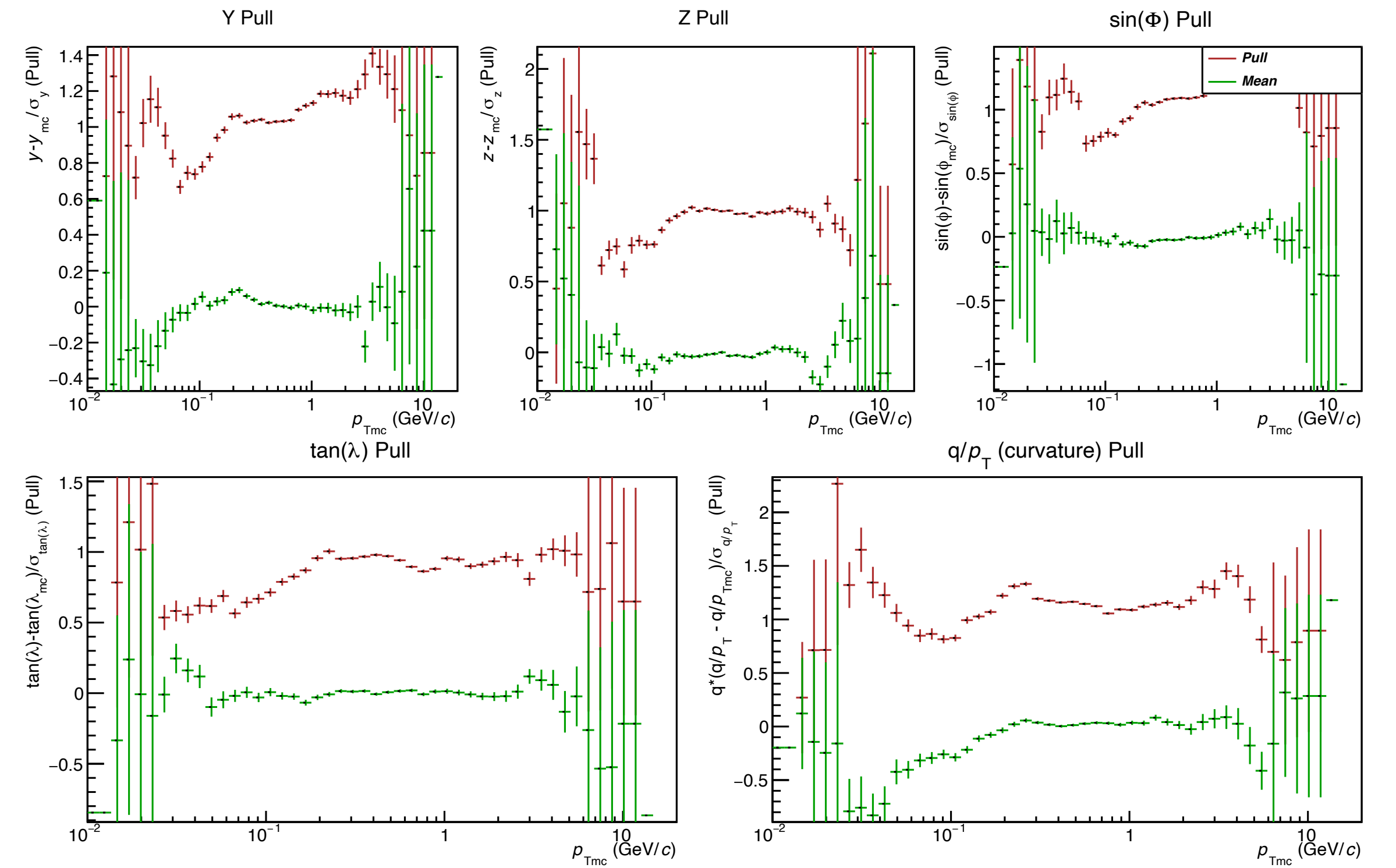
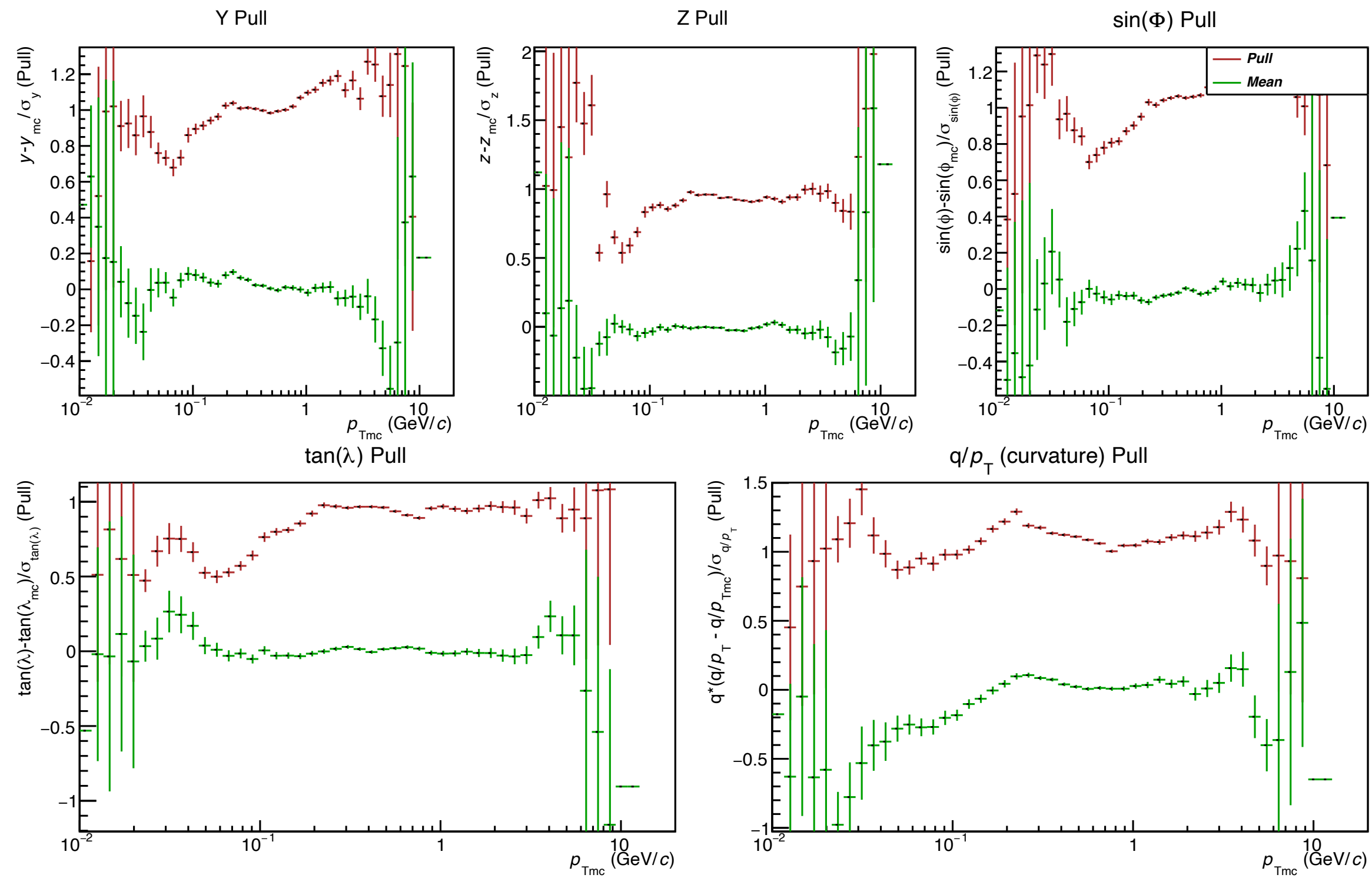
Network



Tracking efficiency plots

Native

Network

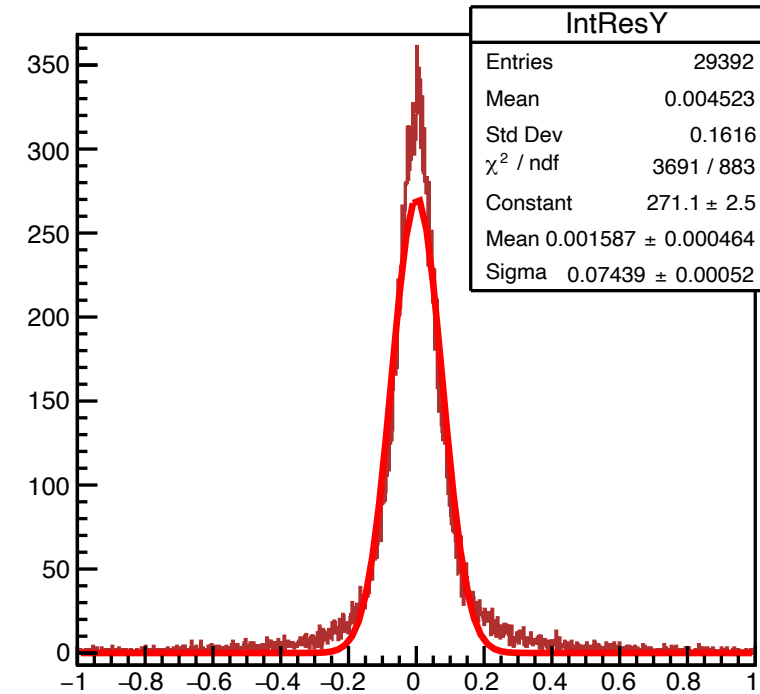


Tracking efficiency plots

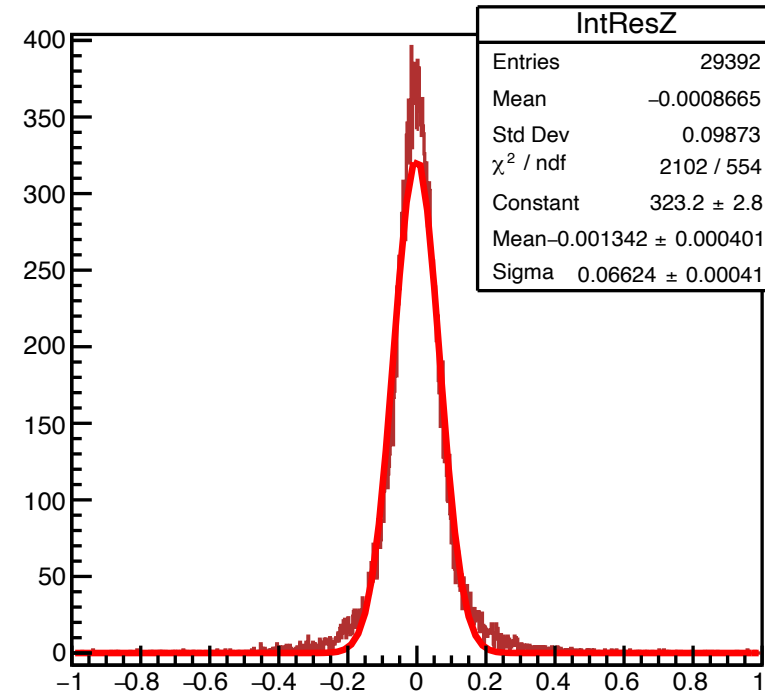
Native

Network

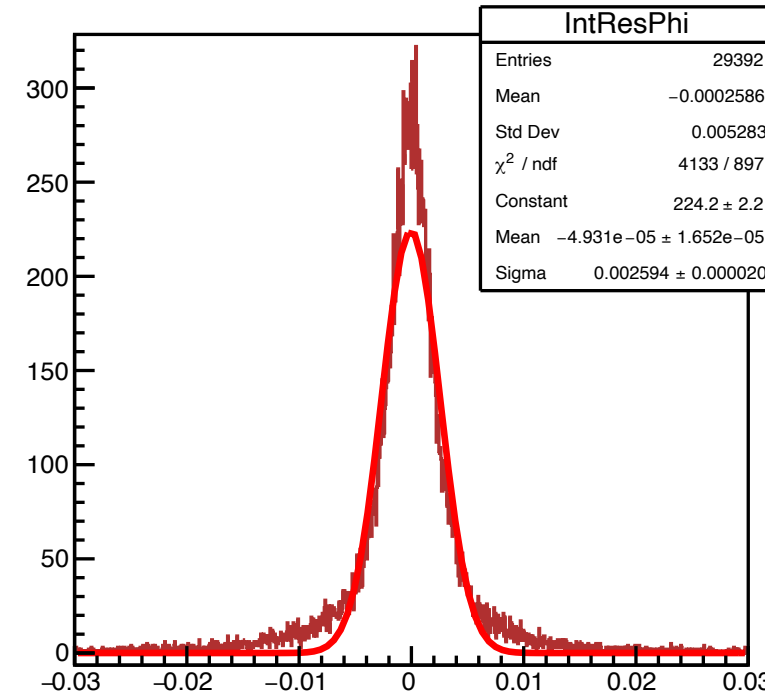
Y Resolution



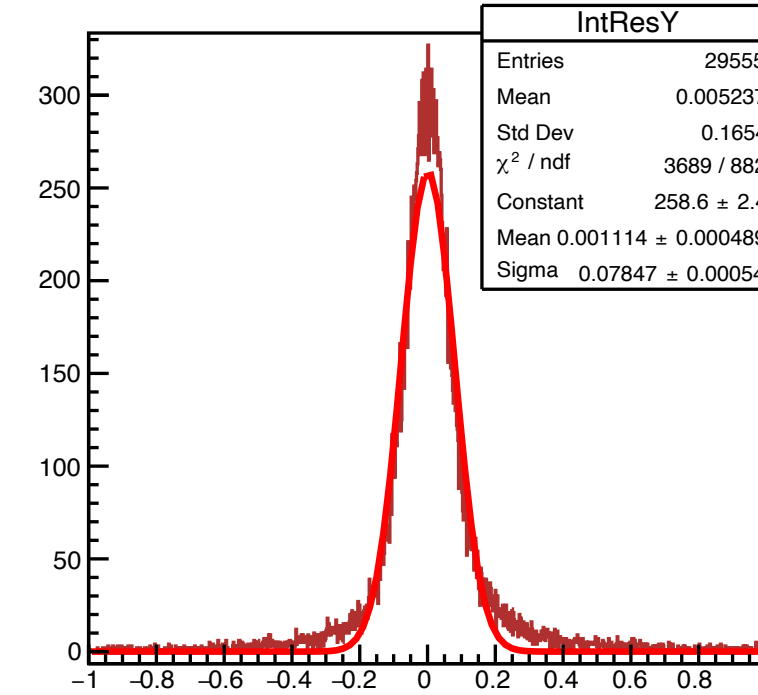
Z Resolution



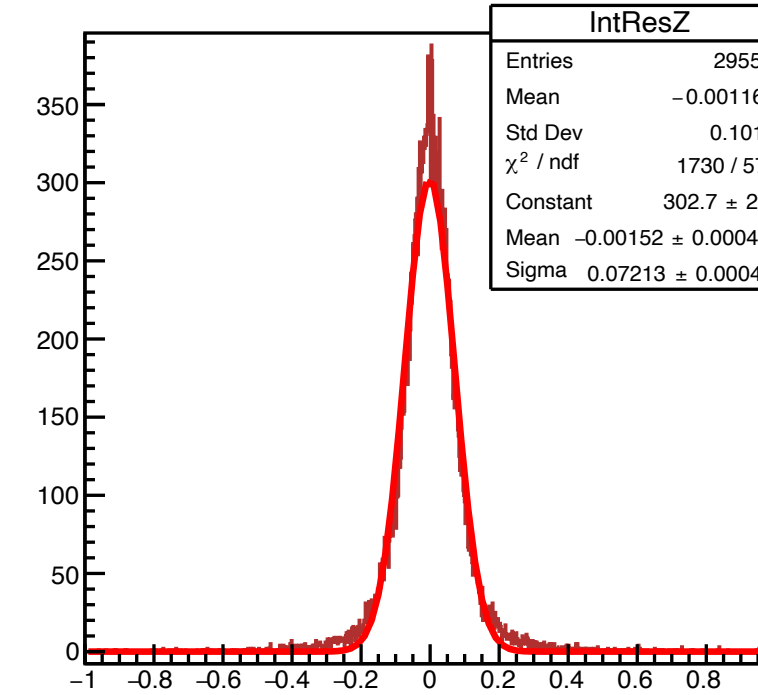
Φ Resolution



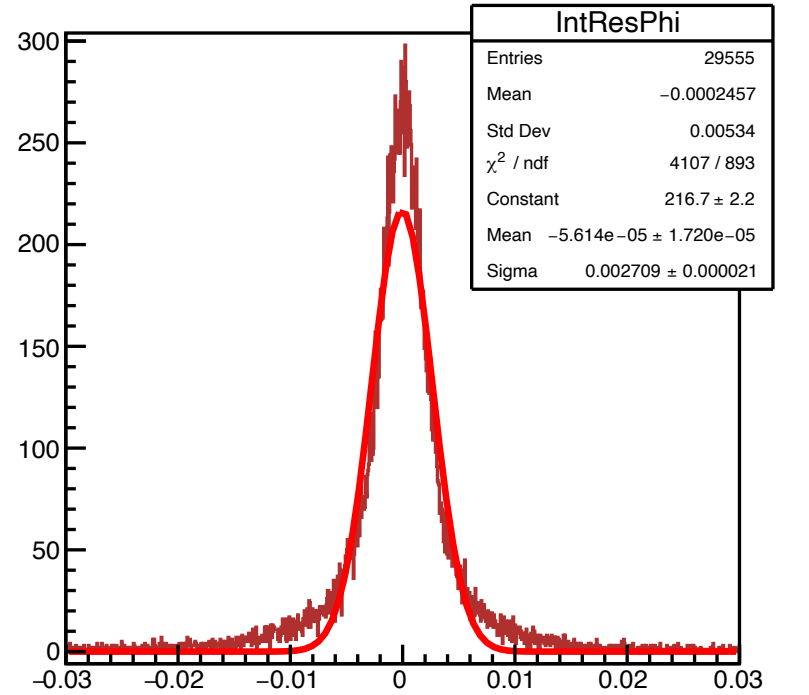
Y Resolution



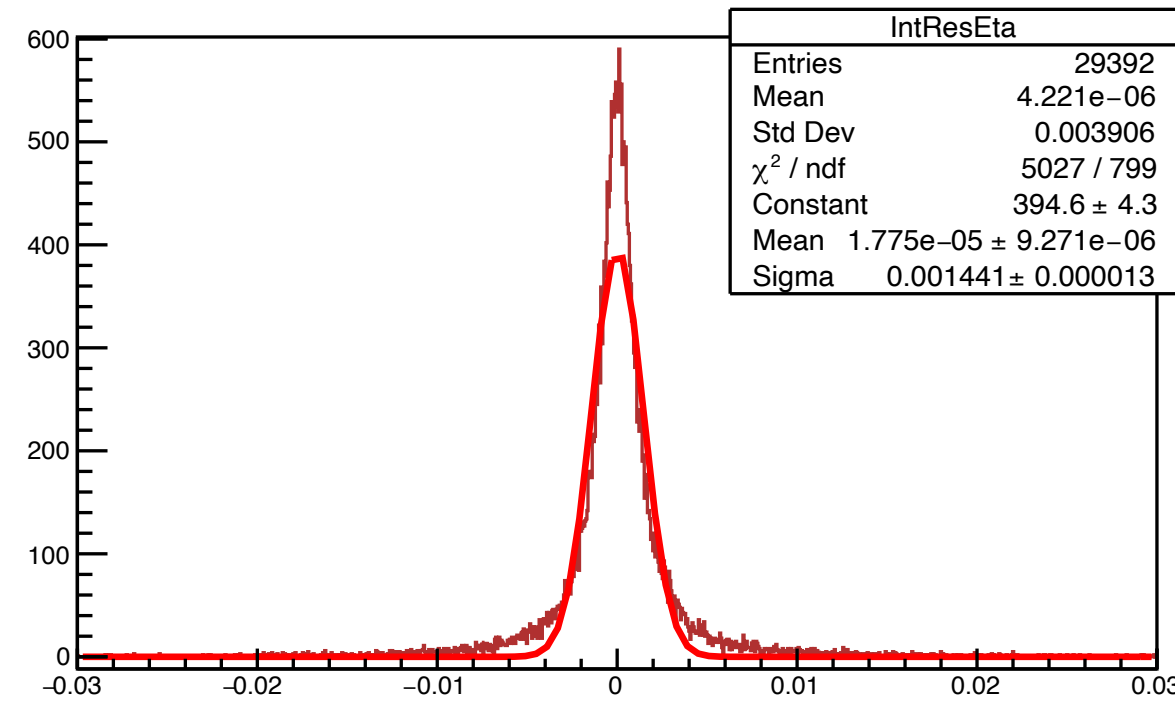
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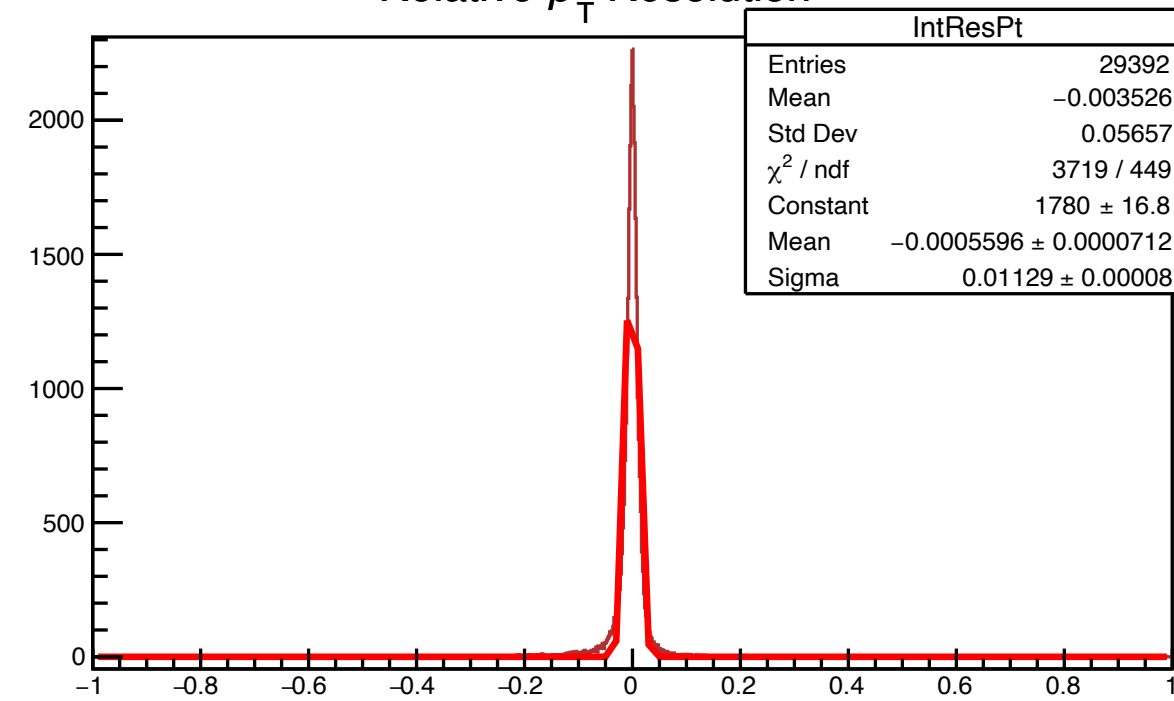
Φ Resolution



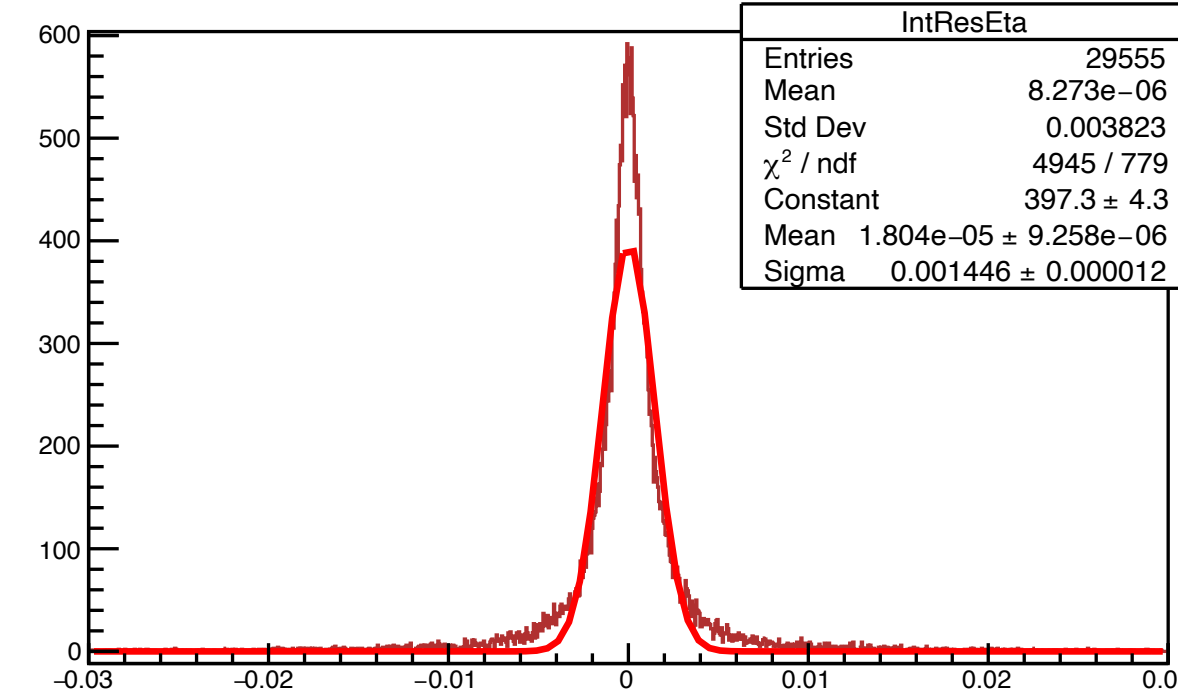
λ Resolution



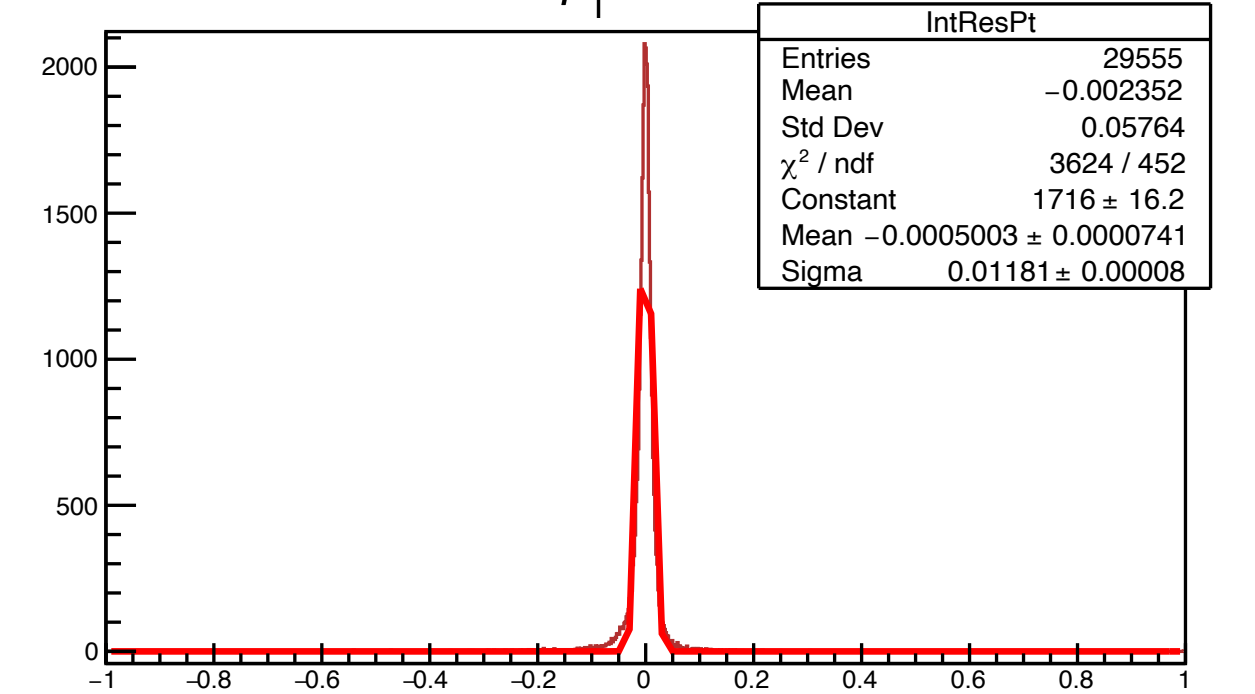
Relative p_T Resolution



λ Resolution

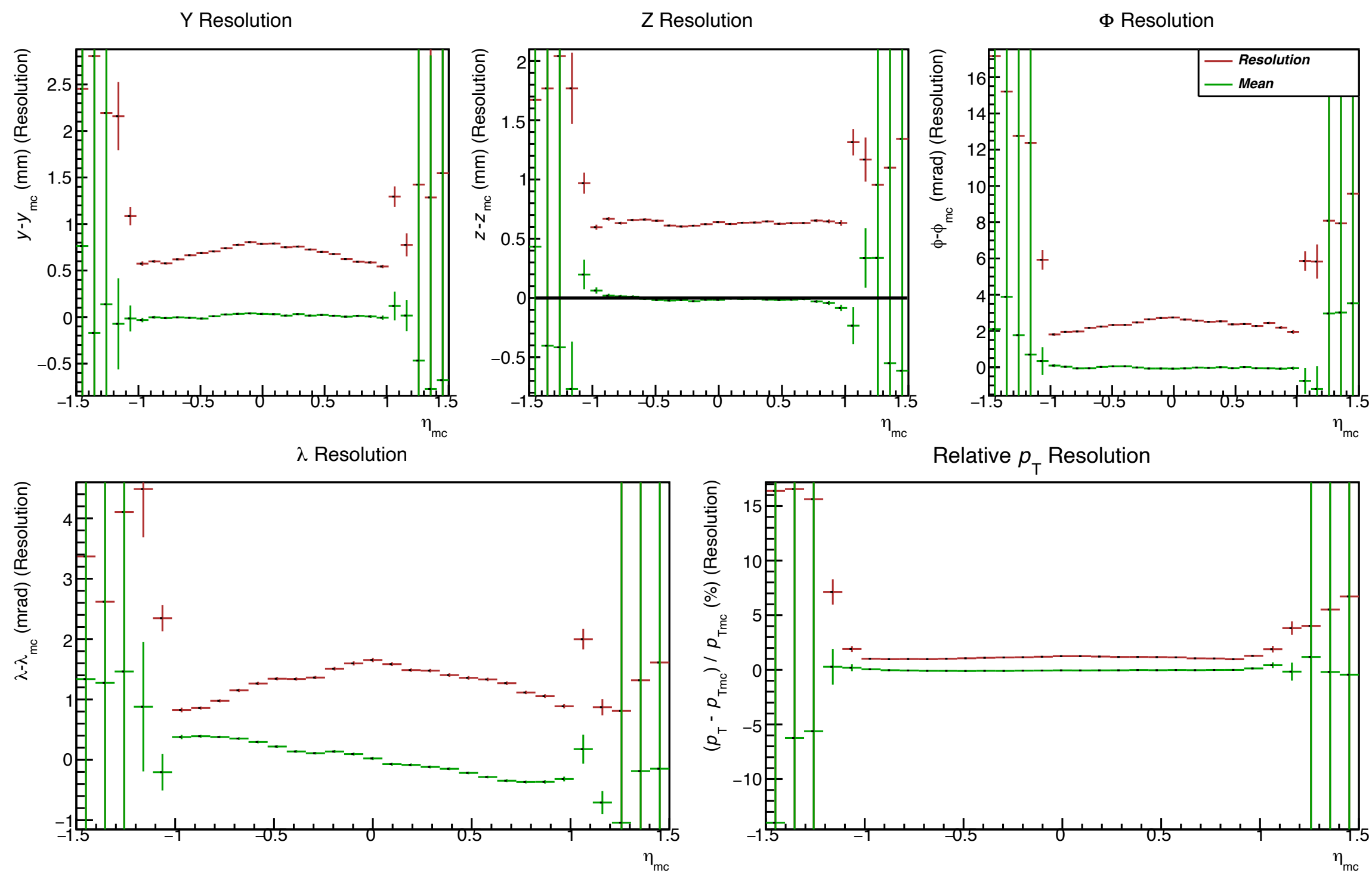


Relative p_T Resolution

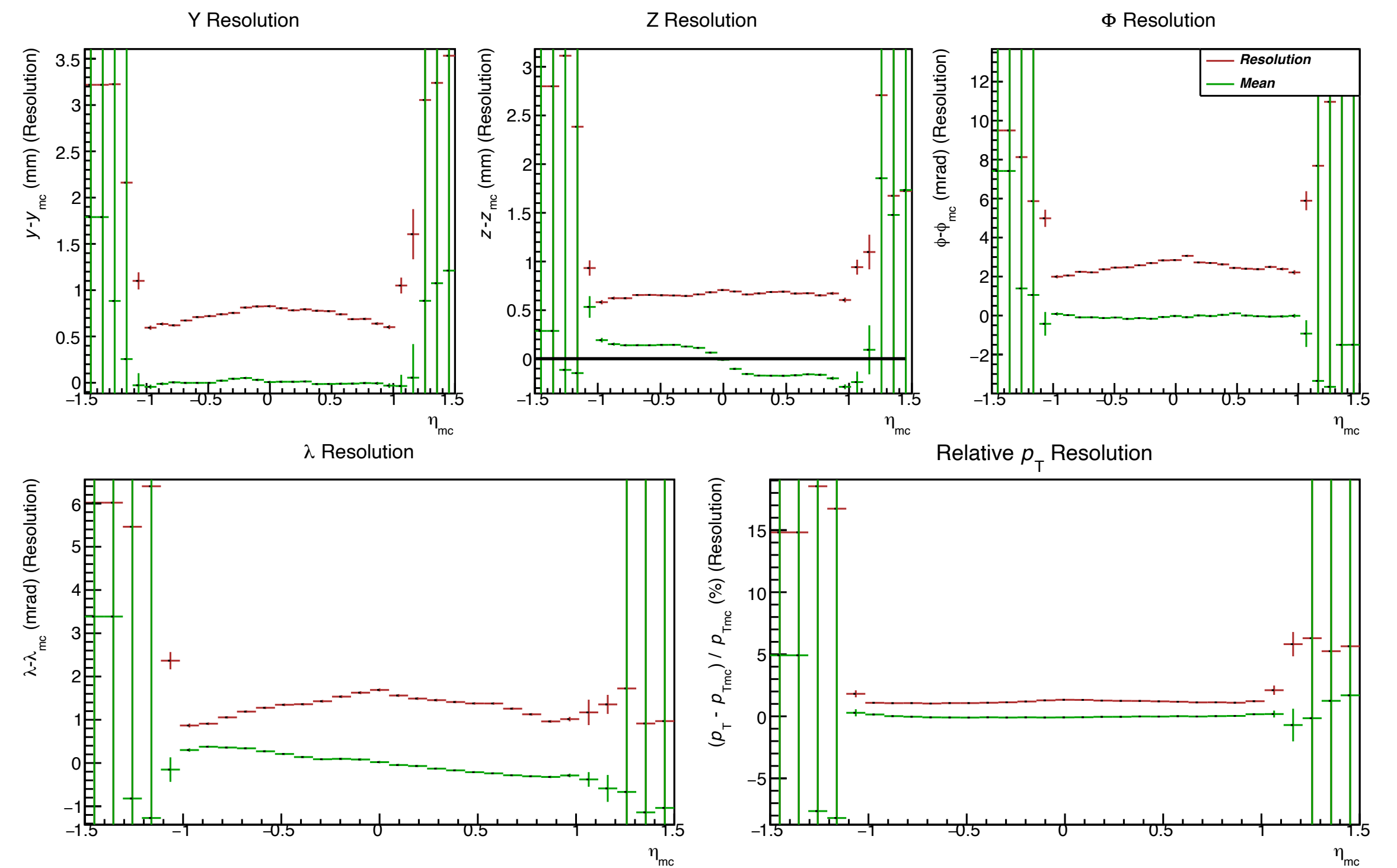


Tracking efficiency plots

Native



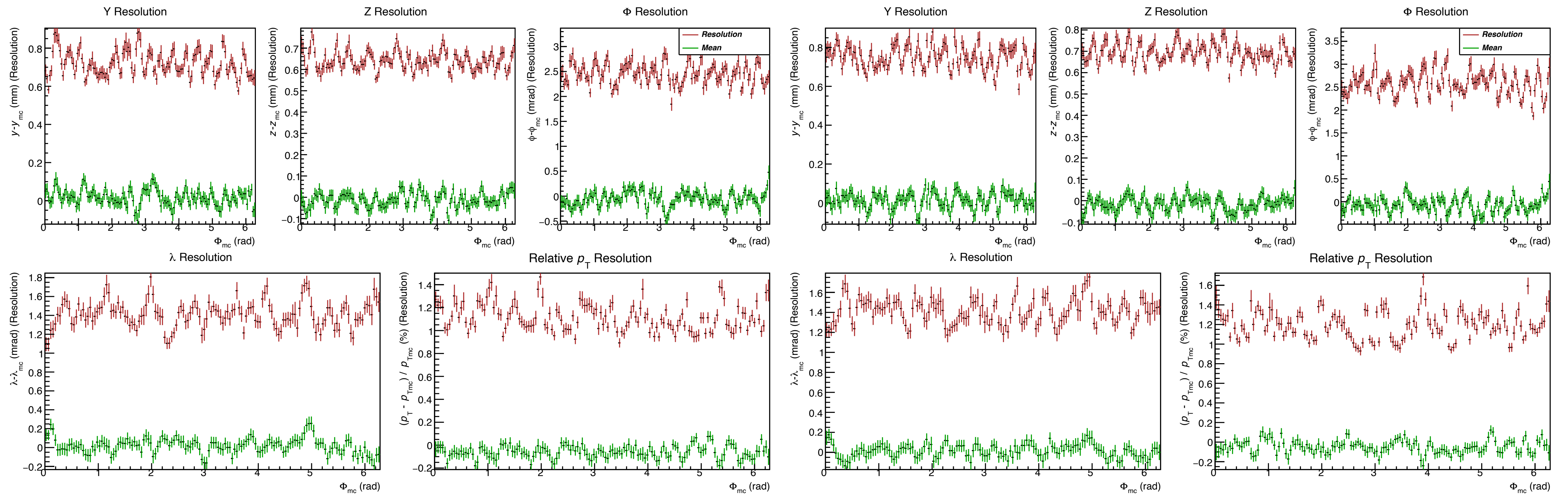
Network



Tracking efficiency plots

Native

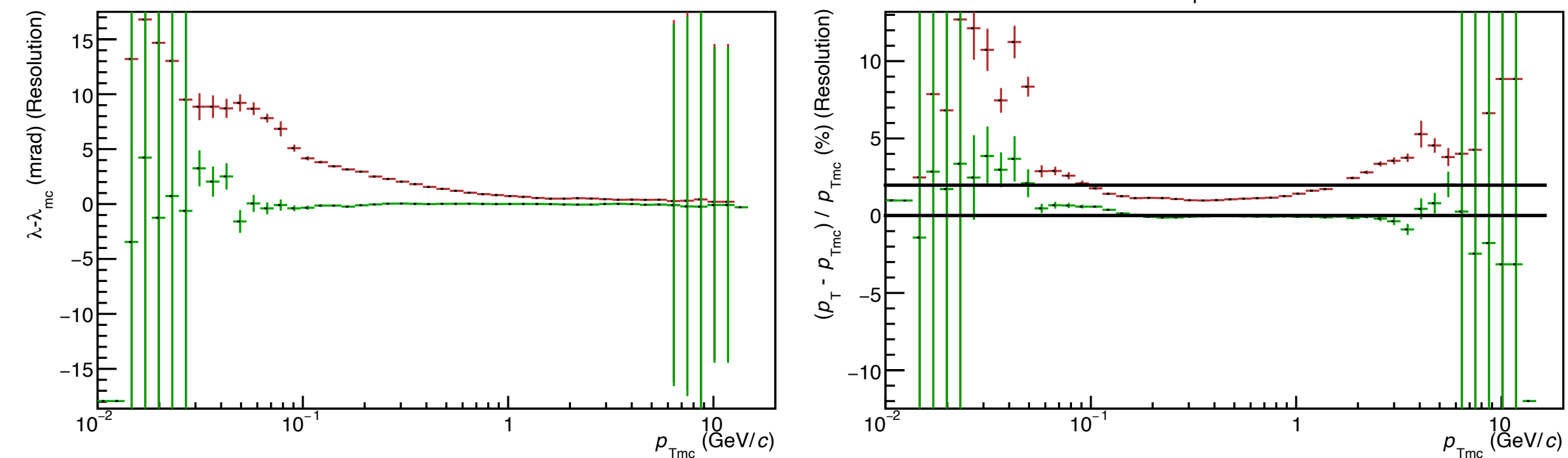
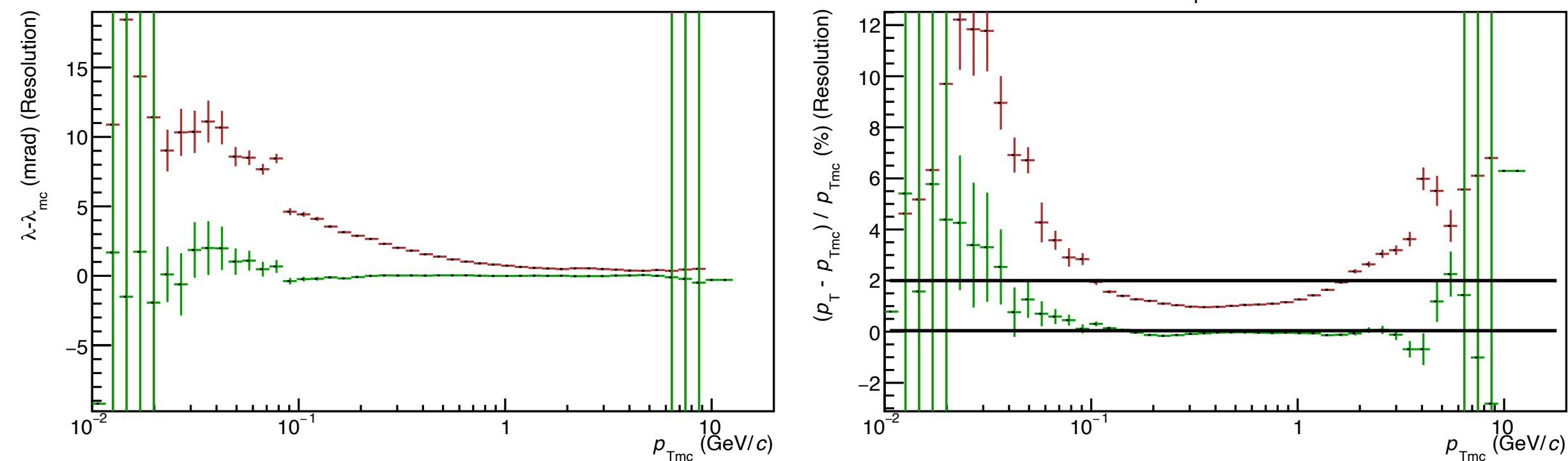
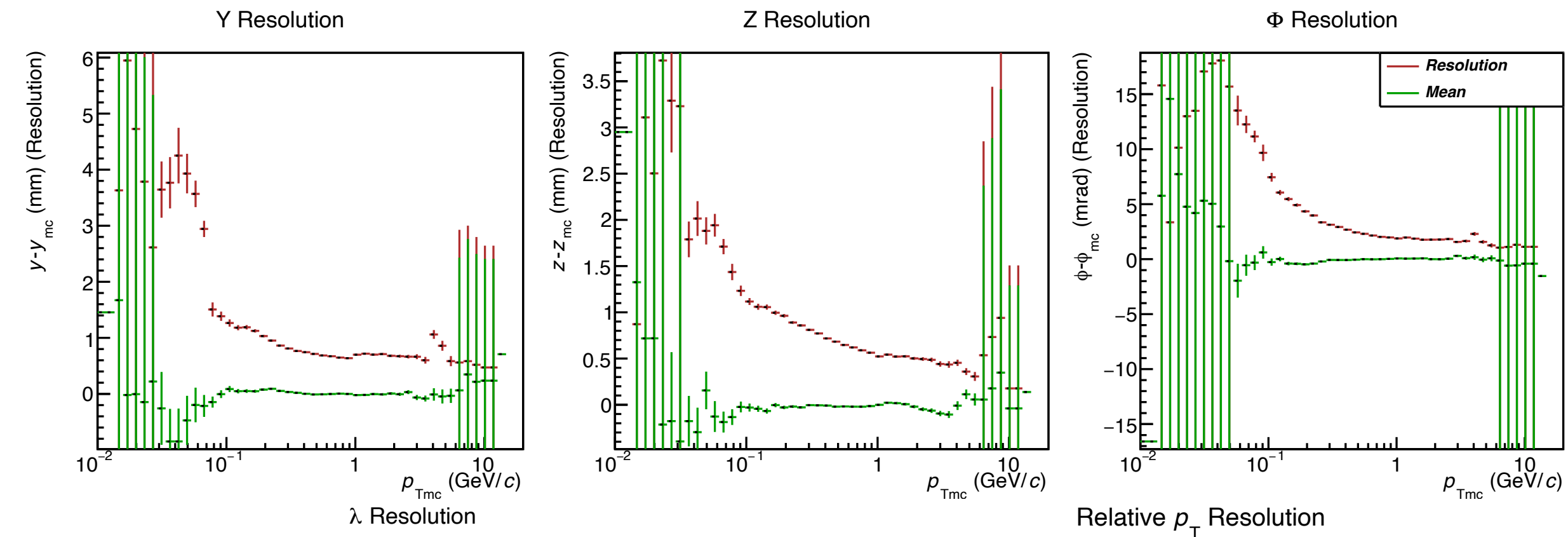
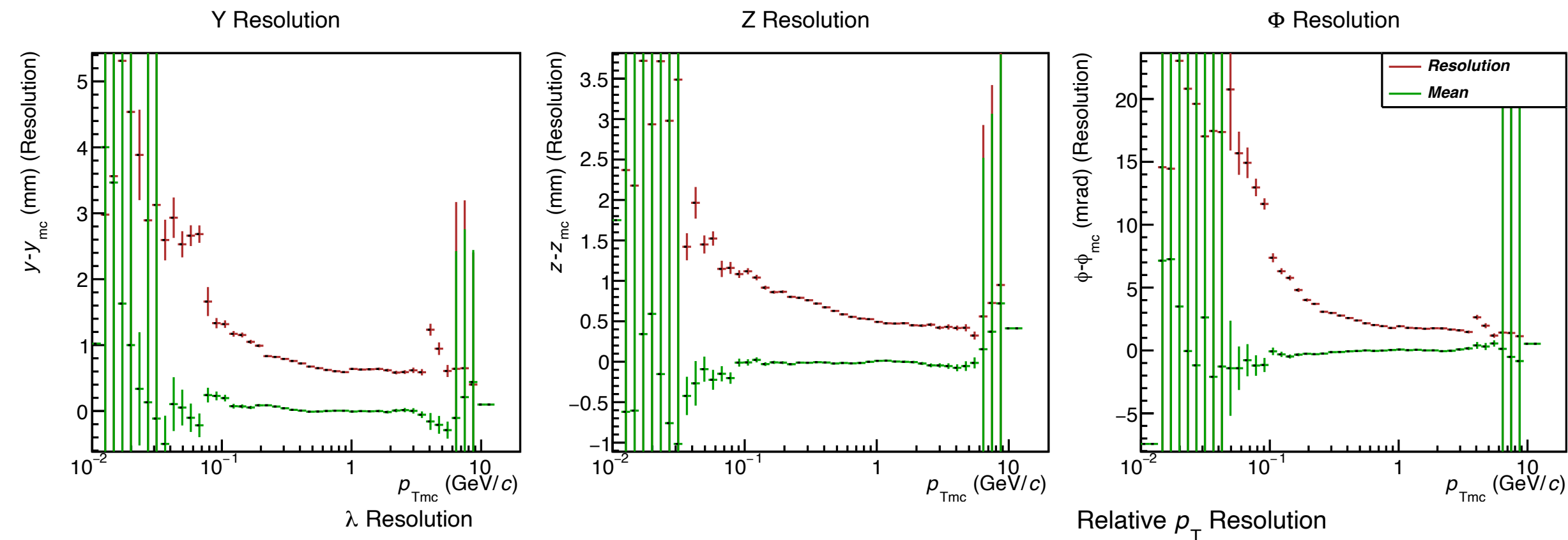
Network



Tracking efficiency plots

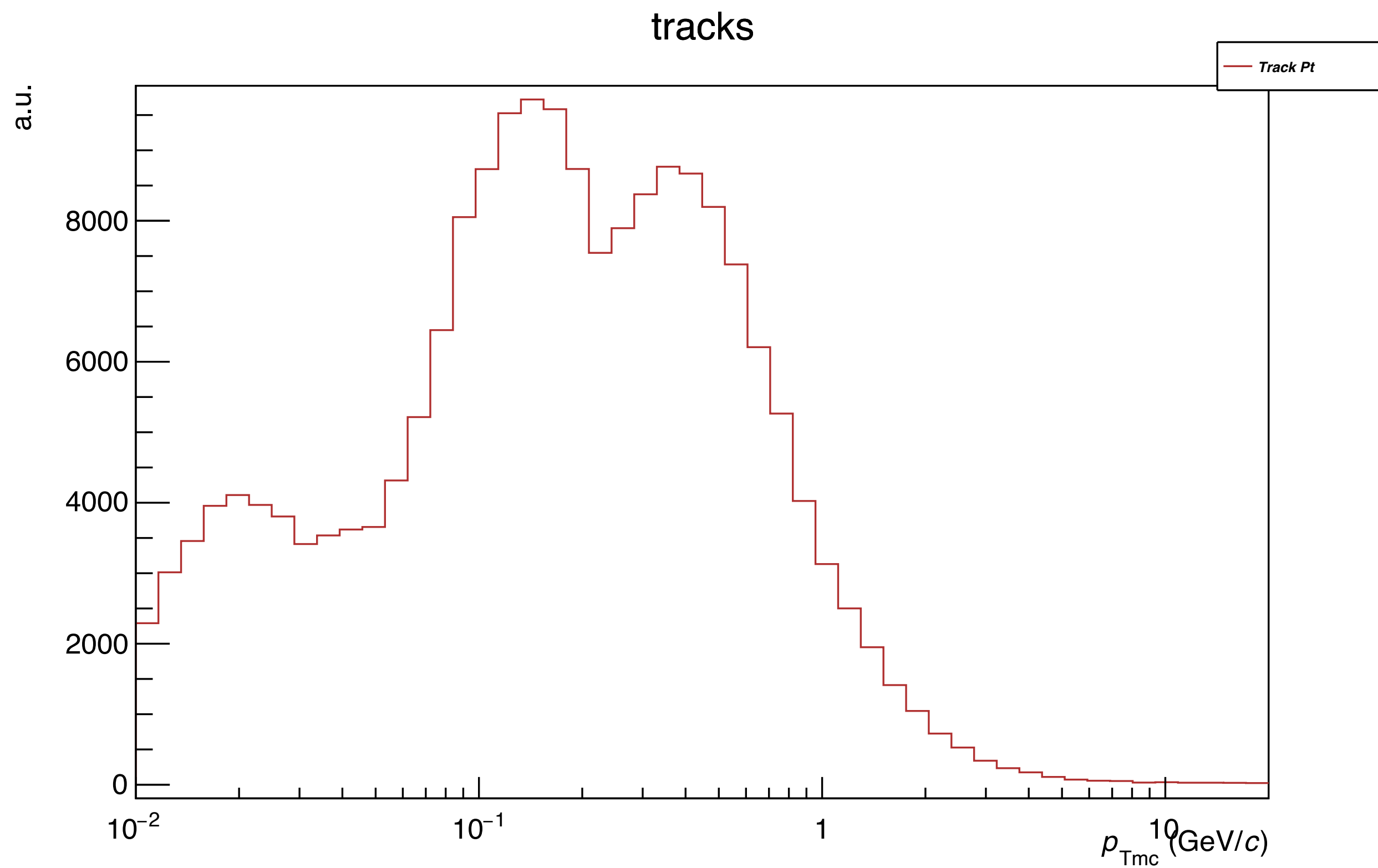
Native

Network

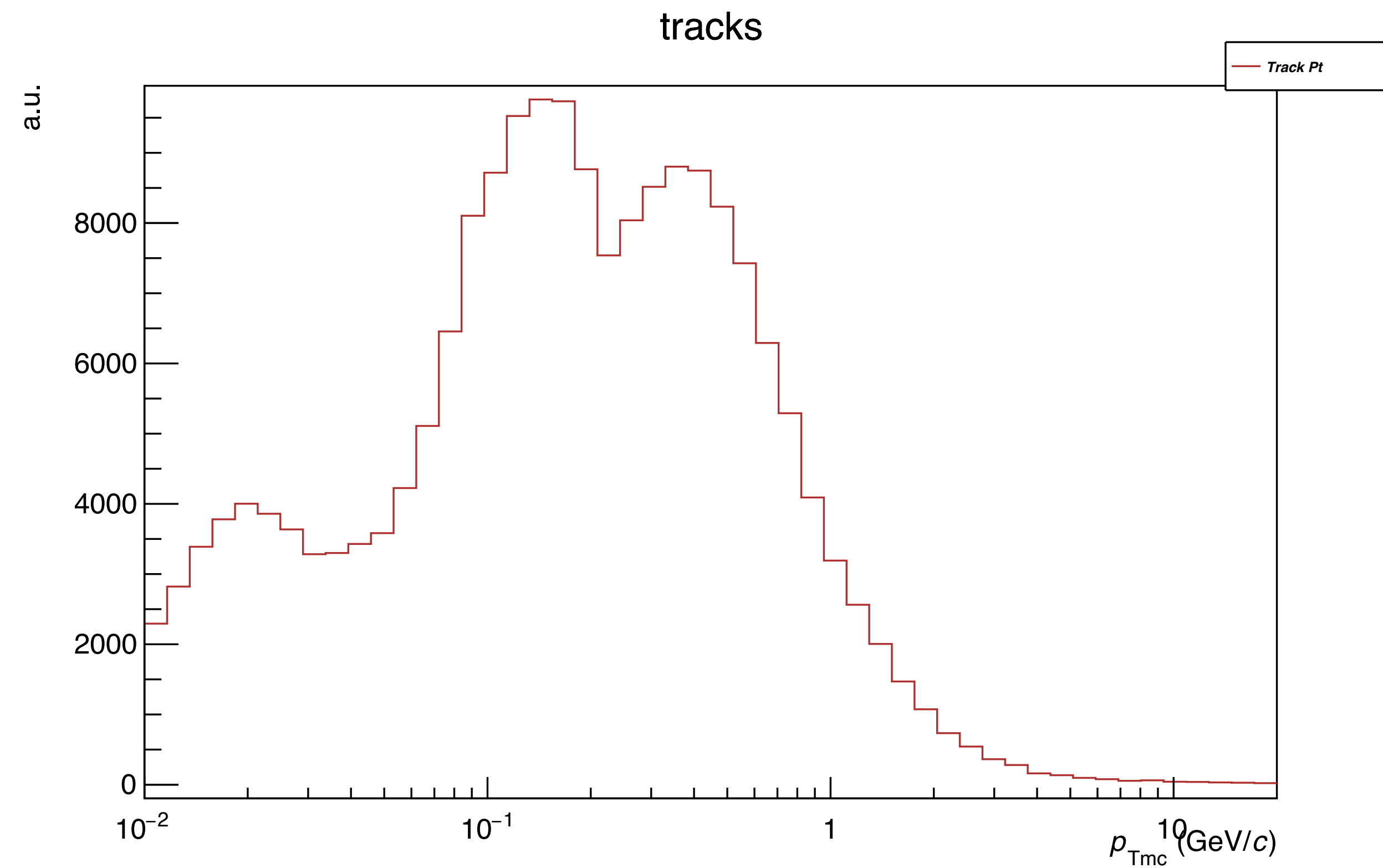


Tracking efficiency plots

Native



Network



Main conclusion for the network

- Overall performance very much comparable between both methods
- Figure out why there is the dependence on (η , Z pull) and at low momentum (and whether they are correlated)
- Overall more statistics would be better to remove some fluctuations -> Maybe inject some particles e.g. at very high and very low momentum?