

Flip mode emittance analysis update

Paul Bogdan Jurj

Imperial College London

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ICL CCAP Meeting

MC tuning

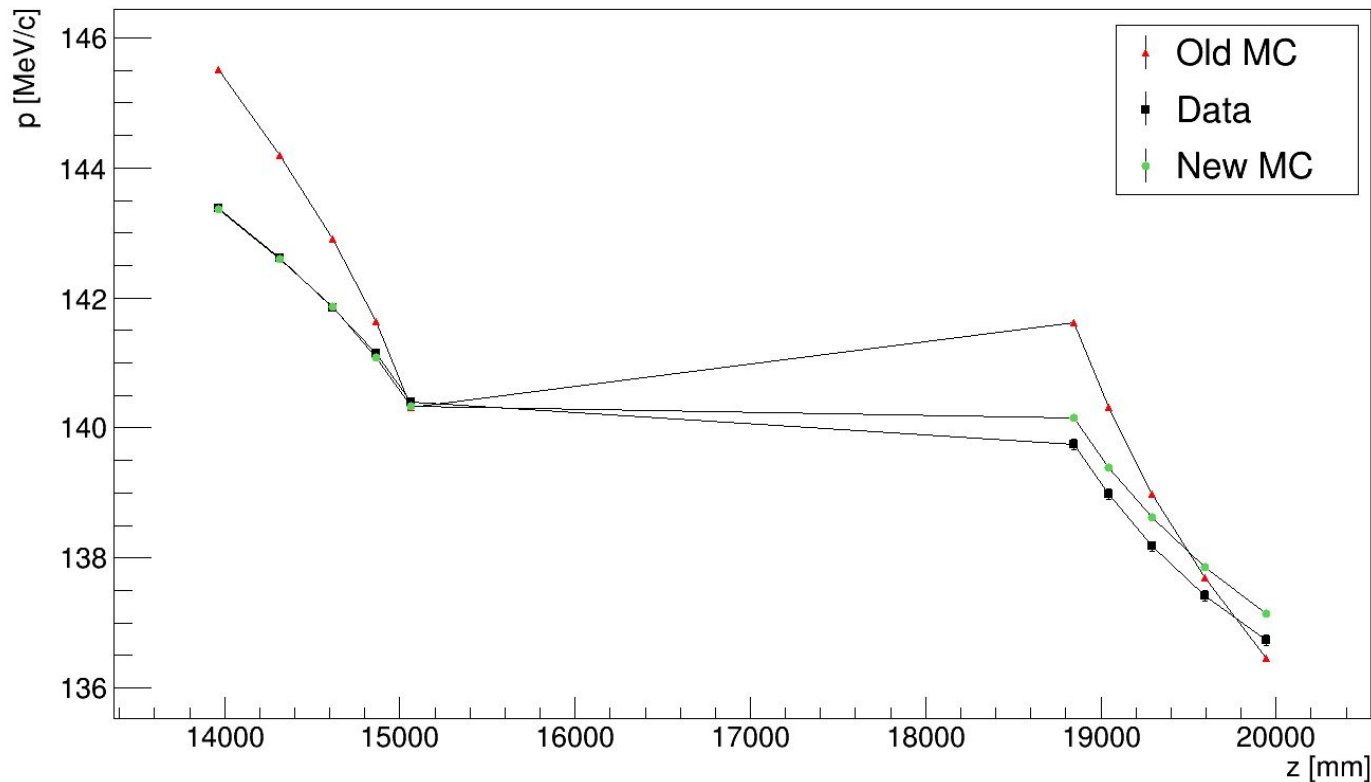
- spent some time setting up a MC production routine using the IC HEP cluster
- Used default SciFiParams_Density = 1.06 g/cm³
- Started tuning the dipole currents
- More or less converged on final current values for the 6-140 analyses

Momentum evolution in trackers

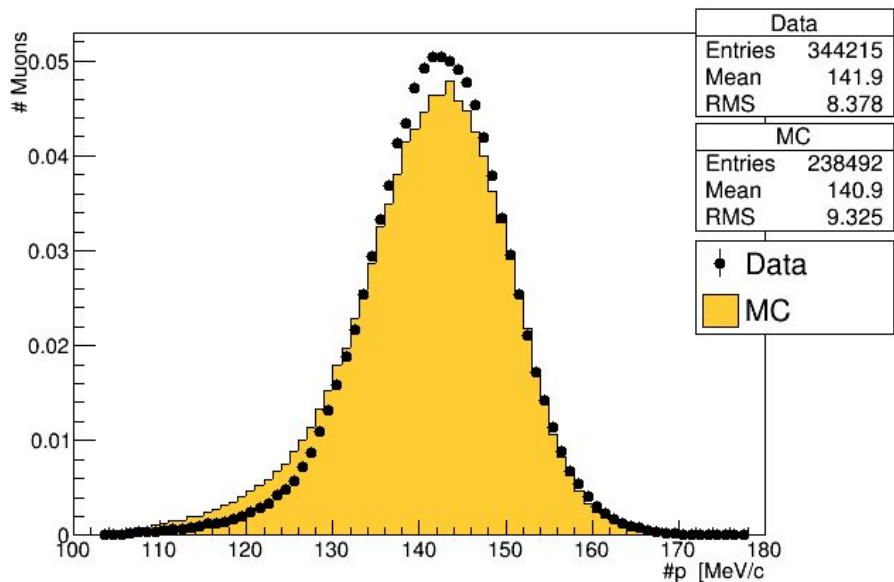
NO ABSORBER (NA)
case shown here

Good energy loss at
stations agreement
between data and
new MC

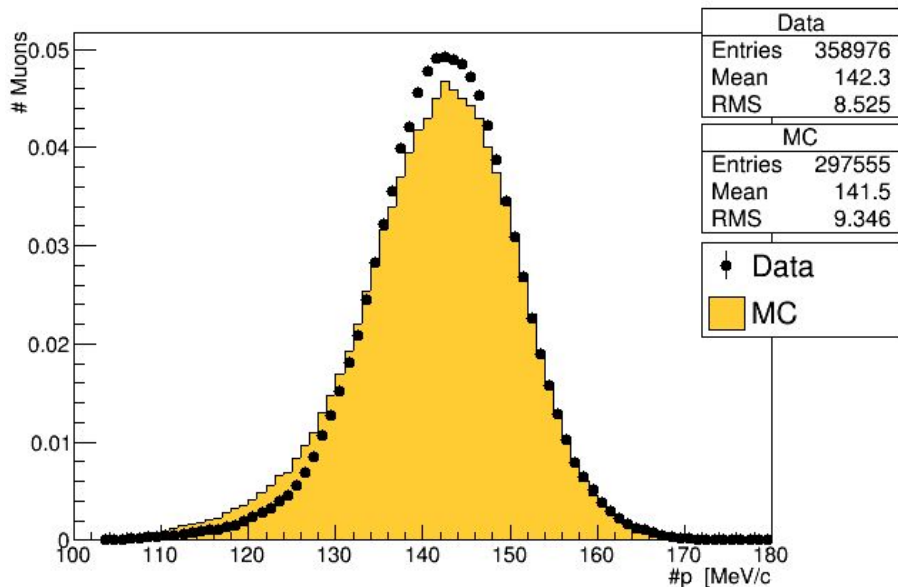
0.3 - 0.4 MeV/c
discrepancy in TKD



Momentum at TKU reference plane (NA)

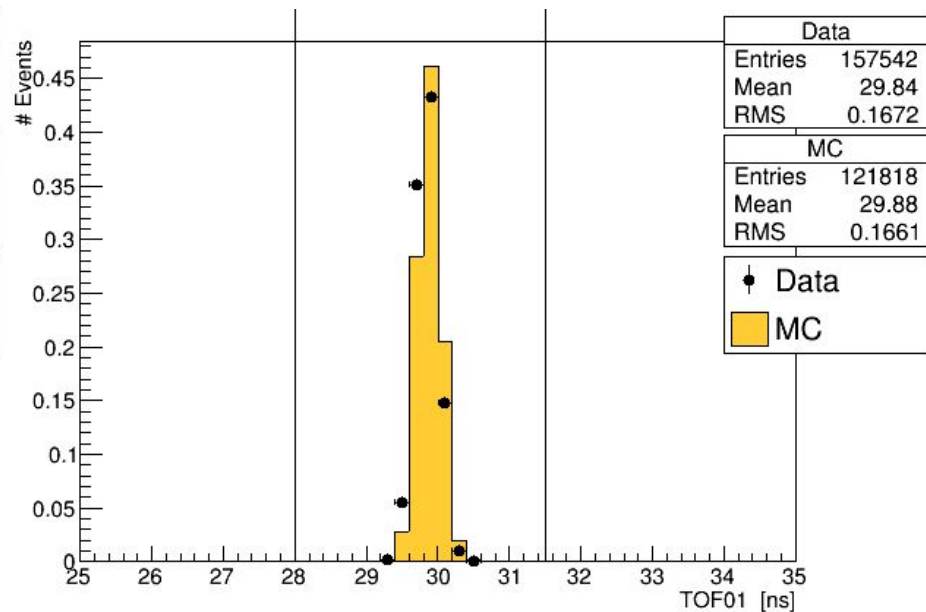
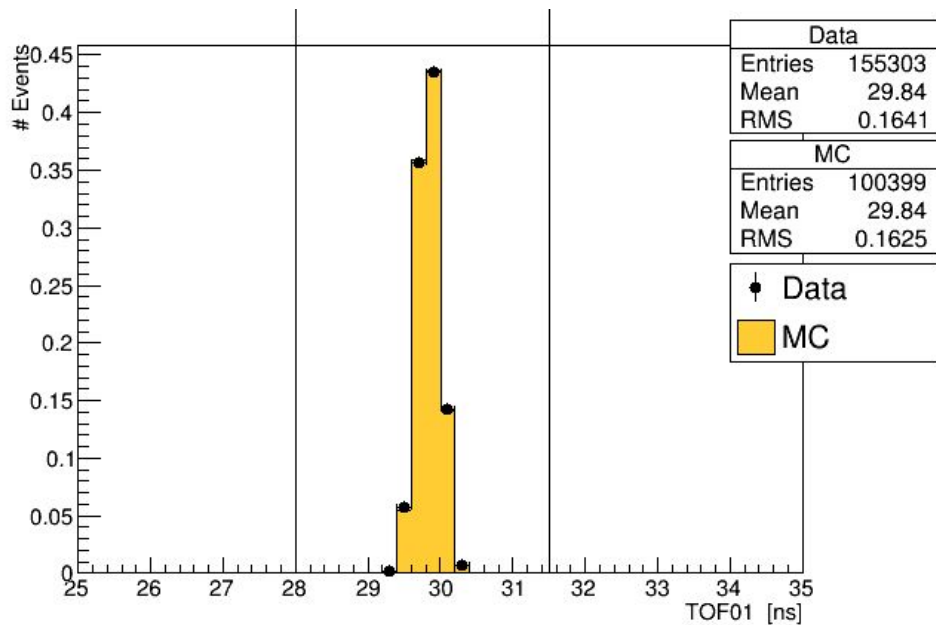


OLD

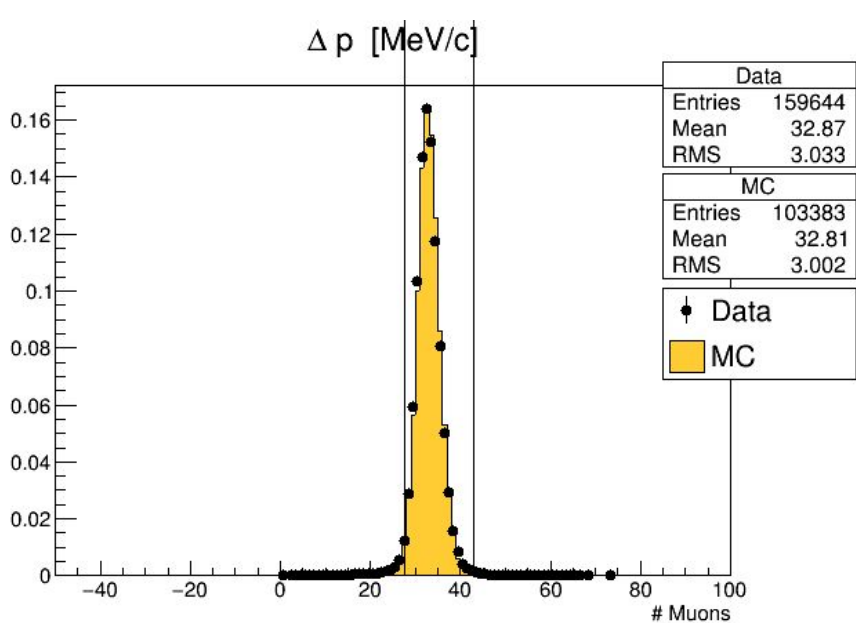


NEW (not final version)

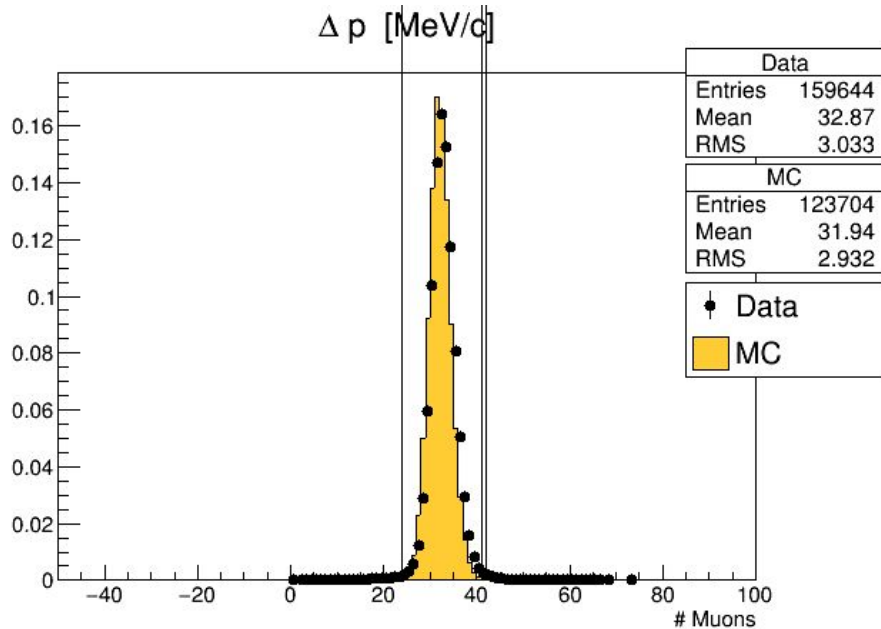
TOF01 (NA)



Momentum loss between TOF1 and TKU (NA)



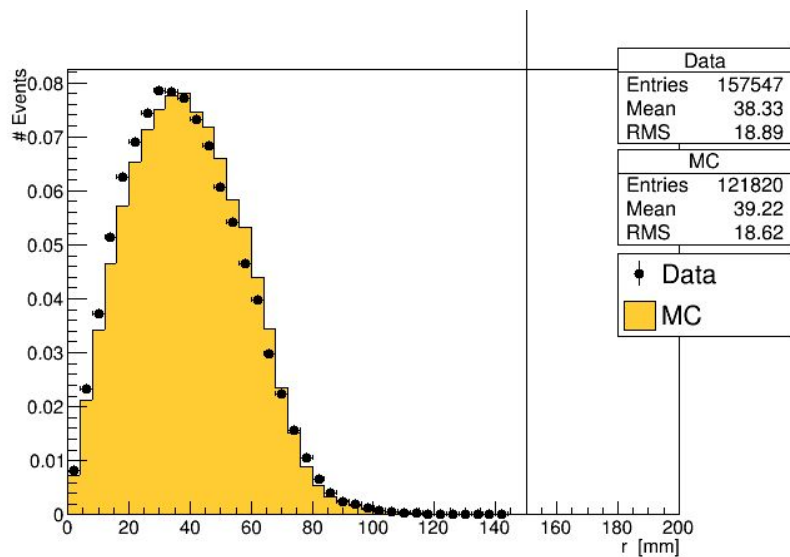
OLD



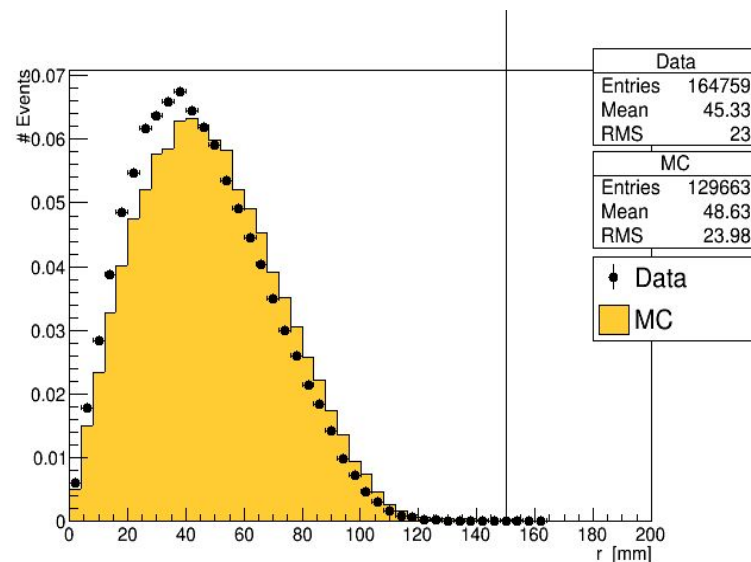
NEW

Radius at reference planes (NA)

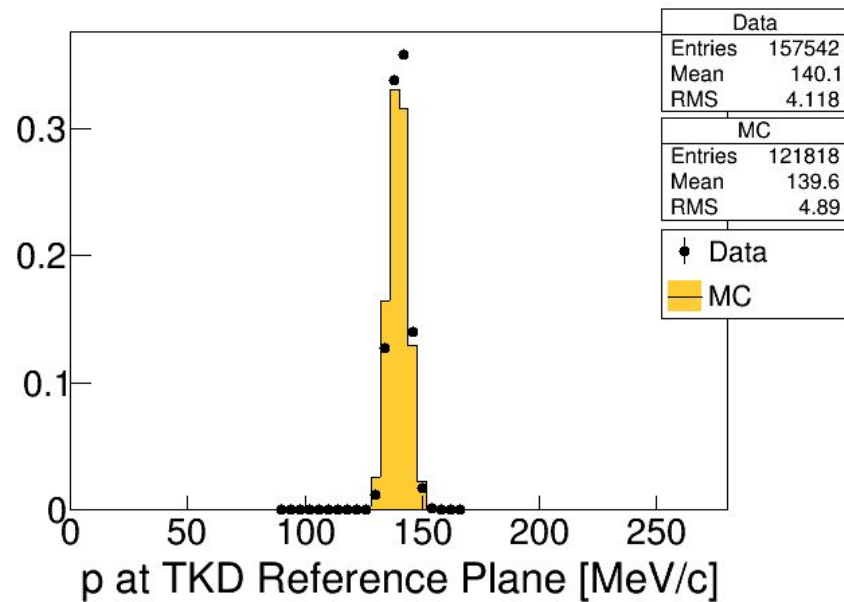
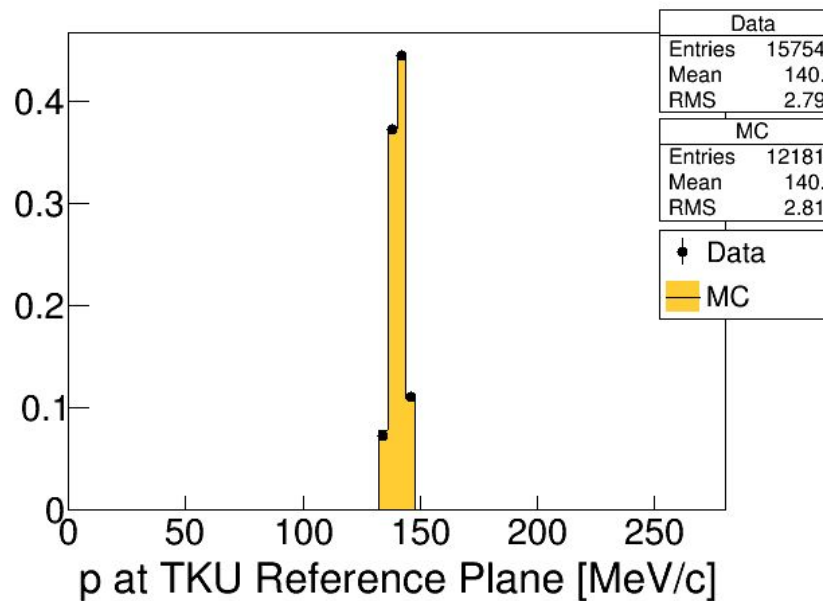
Upstream

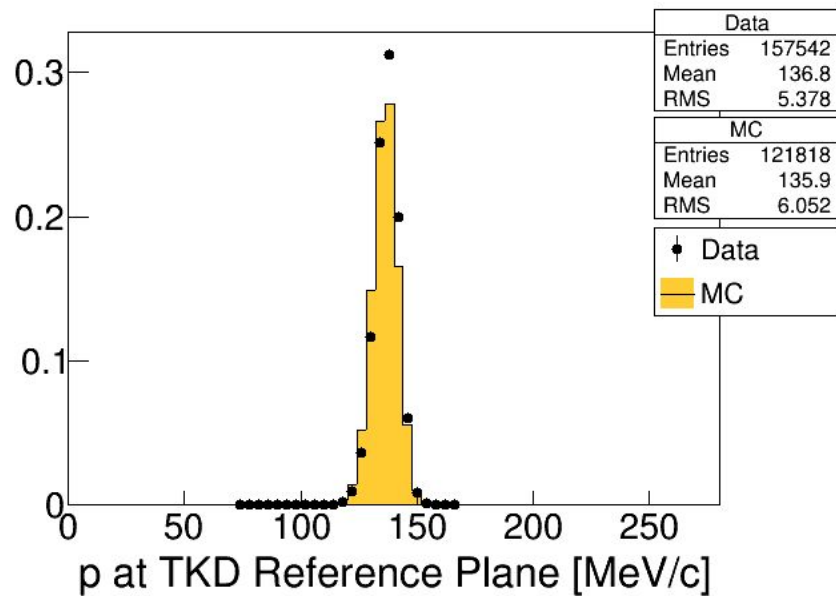
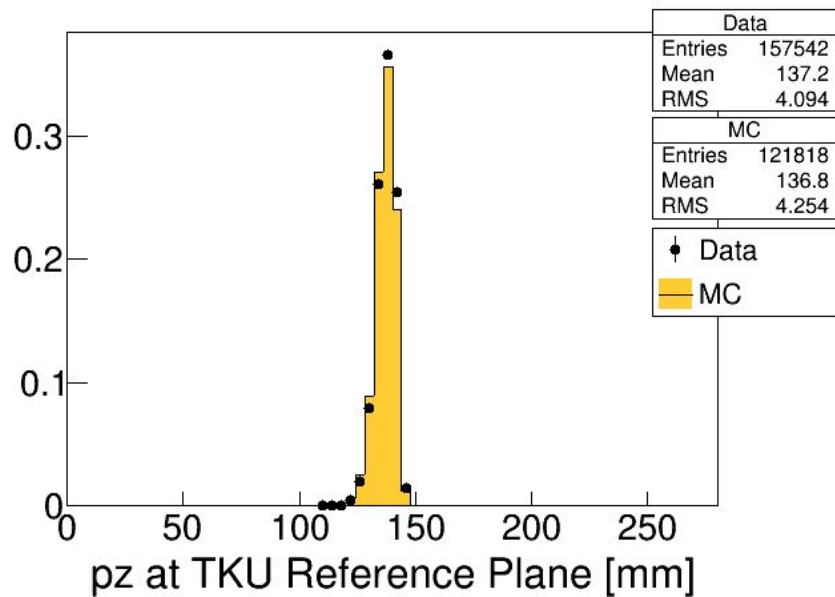


Downstream



Momentum



P_z 

Emittance change (NA)

Not corrected for
reconstruction bias

Less disagreement

