Beam line tuning

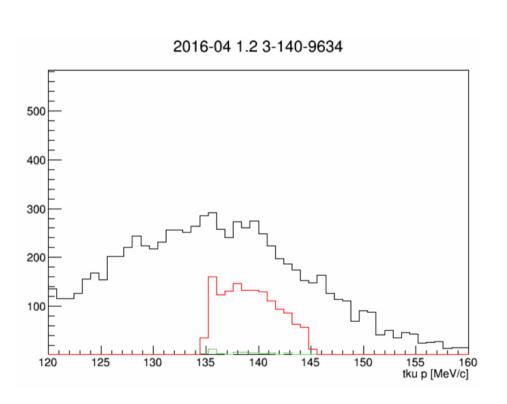
P.F, Chris R., Jaroslaw P.

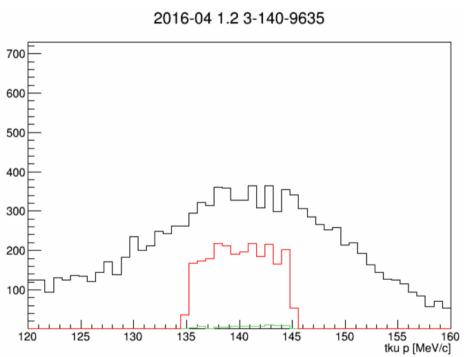
MICE CM 49 3rd October 2017



3-140

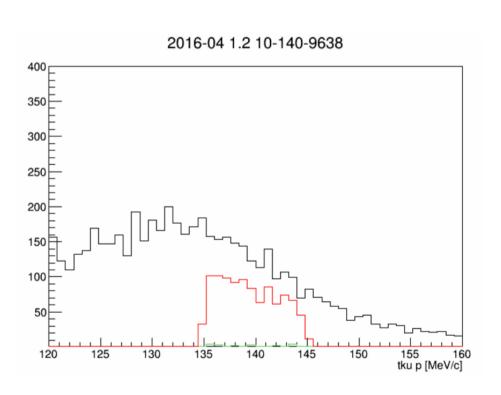
Rescaling of D1 and of the last triplets

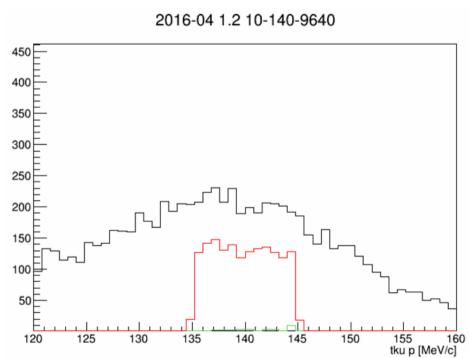






10-140







More tuning

- Calculated a response matrix moving the current in the last 6 quadrupoles +/- 10% for the 140 and 200 MeV/c beams
- Few other iterations
- Alpha 4D goes down, while beta 4D stays the same
- Probably one more iteration



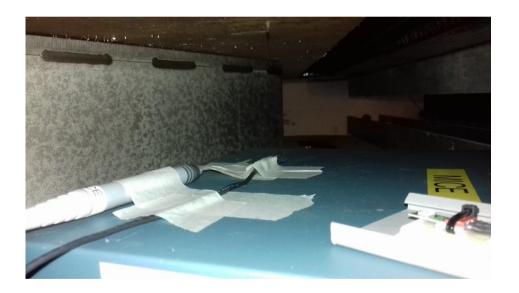
Beam line for M2D on

- Proposed cooling channel setting
- 4 mm 140 MeV/c seems the more promising with a 2T field in the cooling channel
- Few settings to be tuned later today



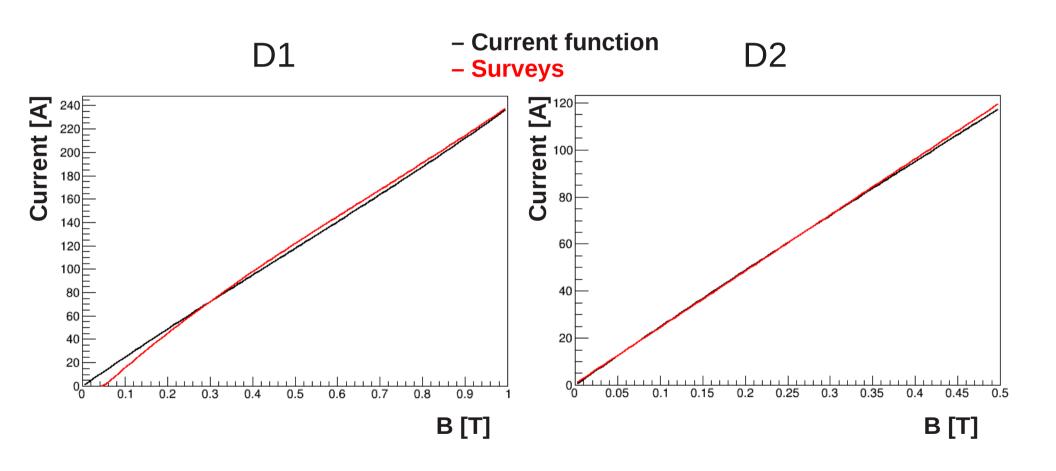
Survey of D1







Saturation curves



Corrections in the order of 2-3% required



Conclusions

- Few other iterations for a better matching
- Produce a 4-140 setting for the M2D channel
- Produce new MC G4BL datacards