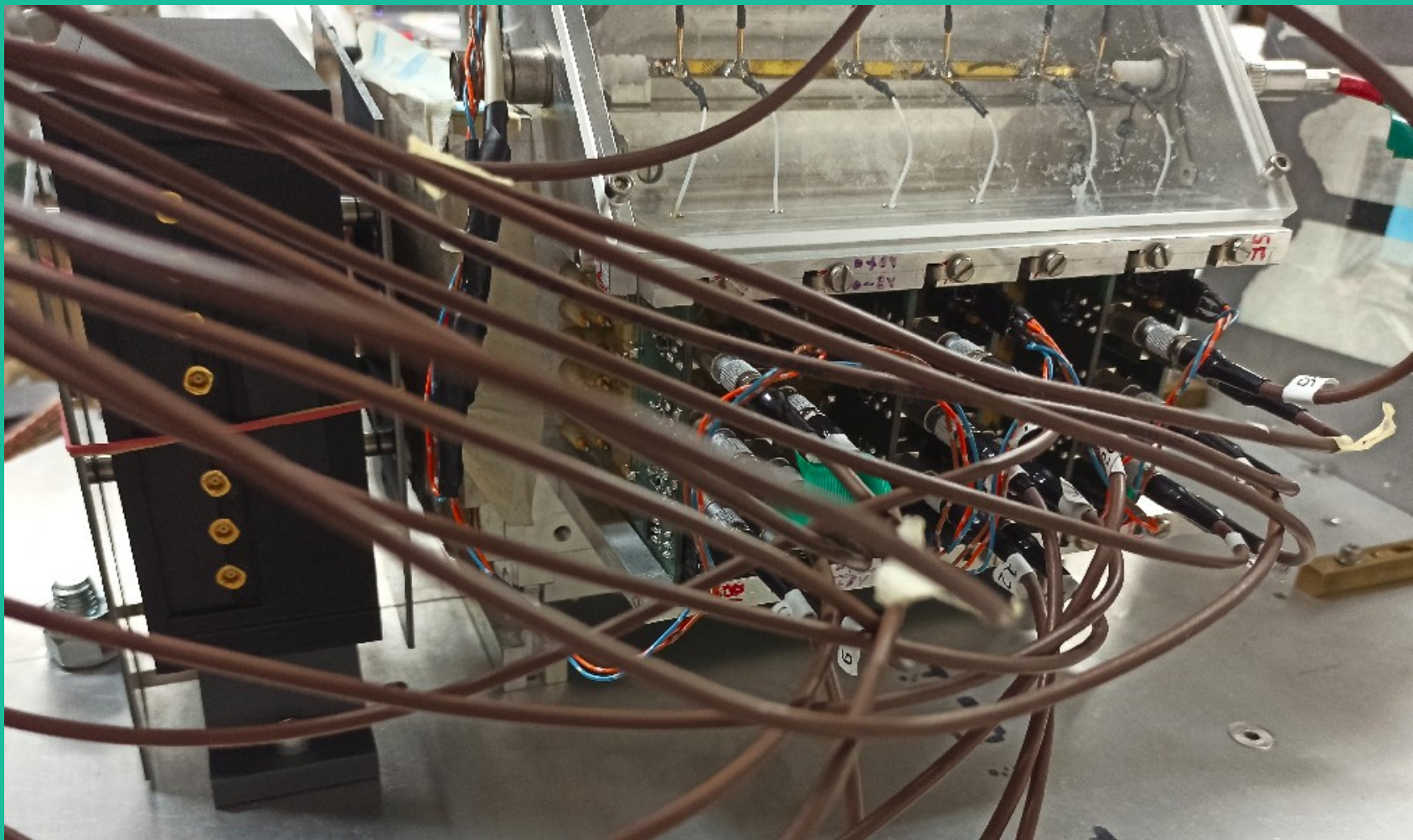




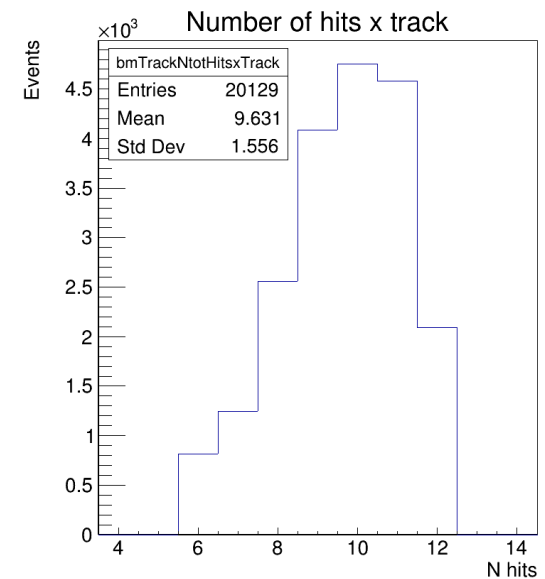
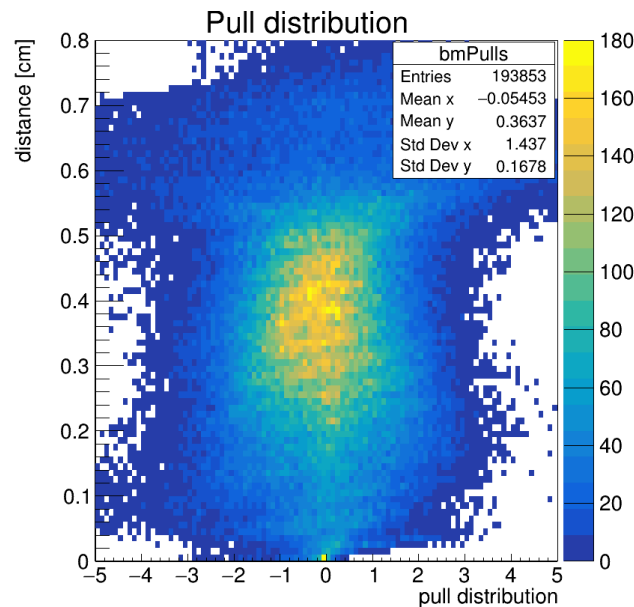
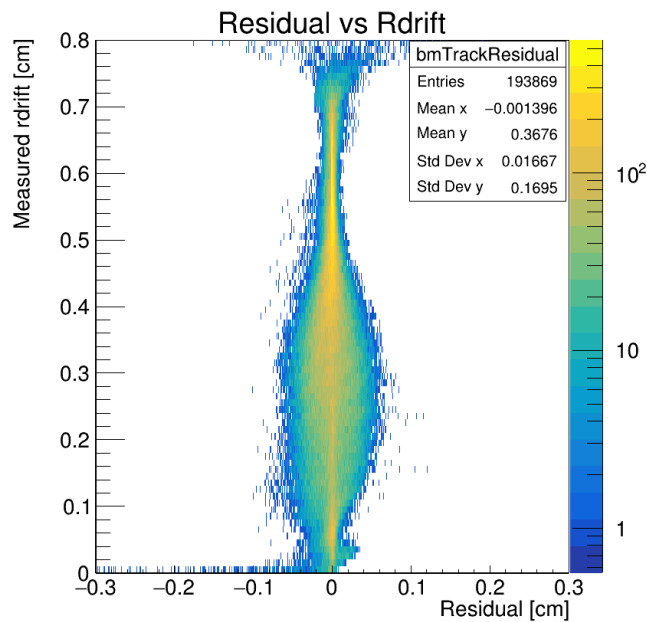
Update on BM

Yunsheng Dong

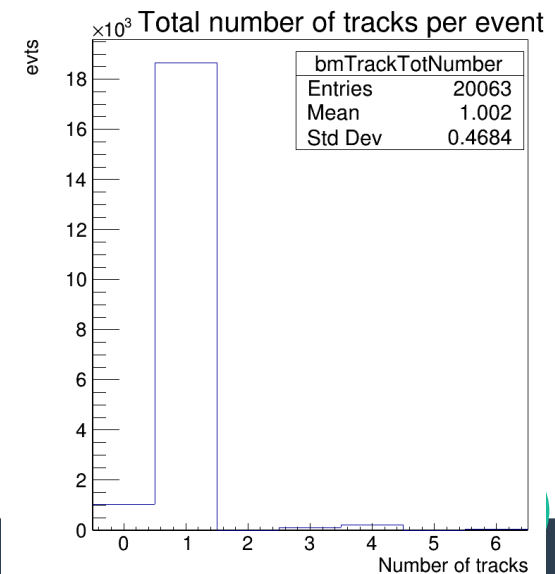
05/09/2023

Results with BM track reco v2

FROM FOOT GENERAL
MEETING IN BERGAMO



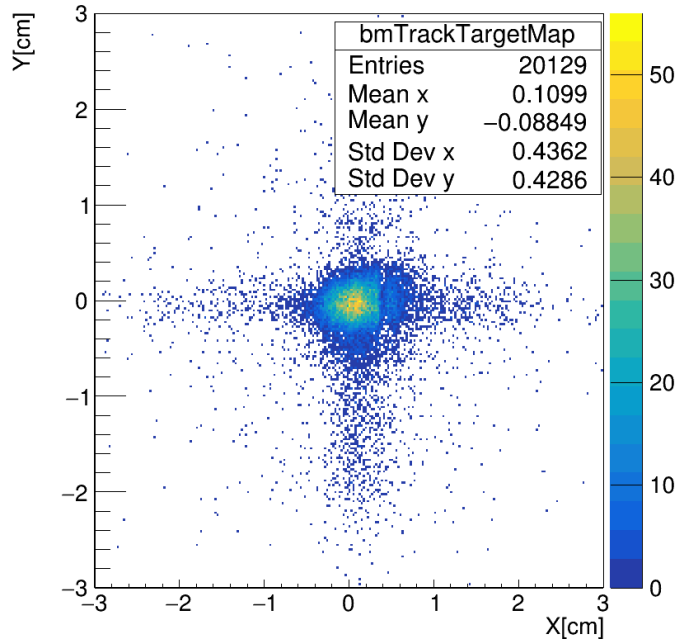
- The residual and the pull distribution do not show too strange behaviour
- Number of hits per track $\sim 9/12$, probably there are hits that are lost
- Number of events with only one track: $18663/20063=0.93$ compatible with the BM calibration @ trento



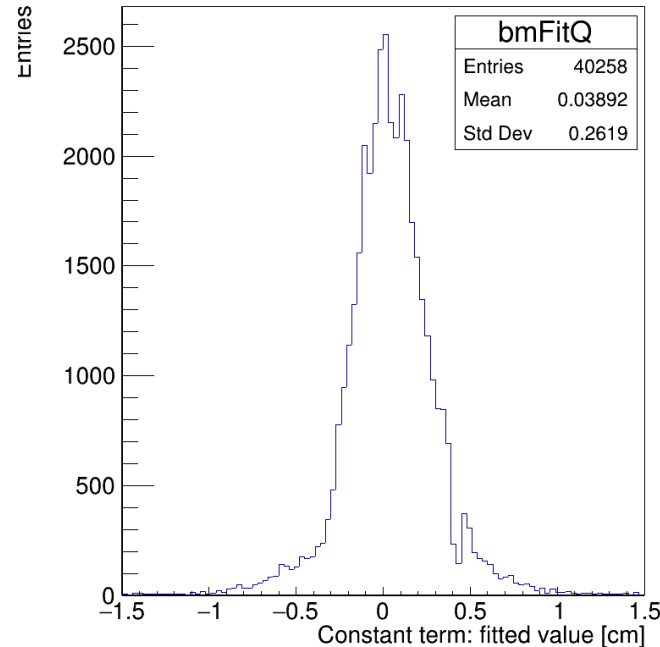
Results with BM track reco v2

FROM FOOT GENERAL
MEETING IN BERGAMO

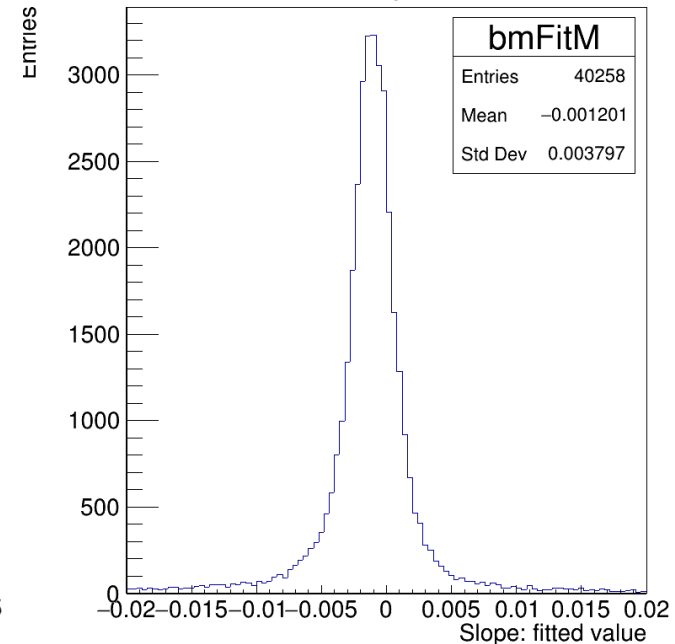
BM - Position of the tracks at the target center



Constant term

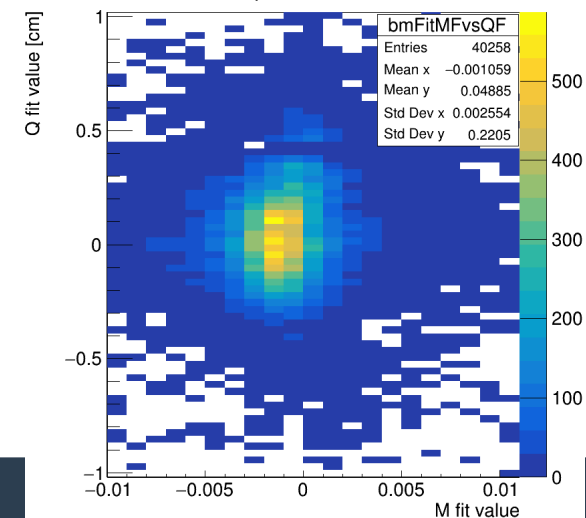


Slope



- No suspicious peaks or other strange behaviours has been found on the reconstructed tracks (not yet... at least)

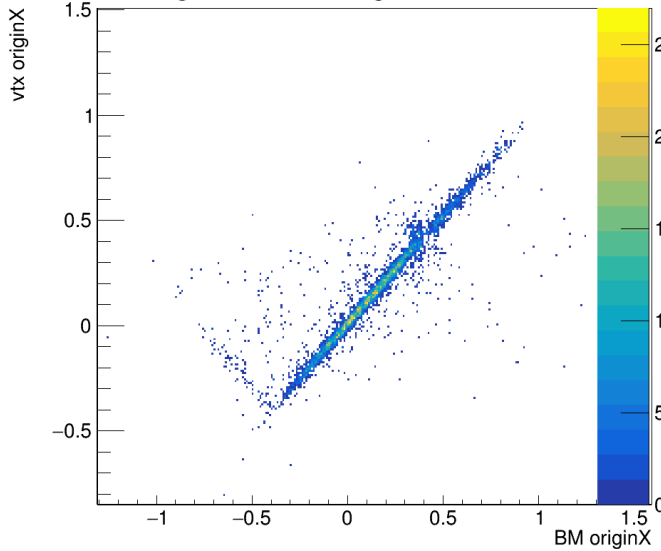
Fit results: slope fit value vs Q constant term



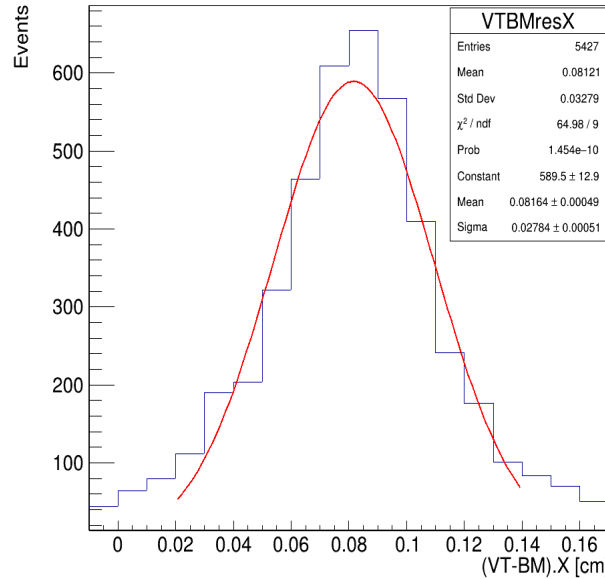
BM vs VT

FROM FOOT GENERAL
MEETING IN BERGAMO

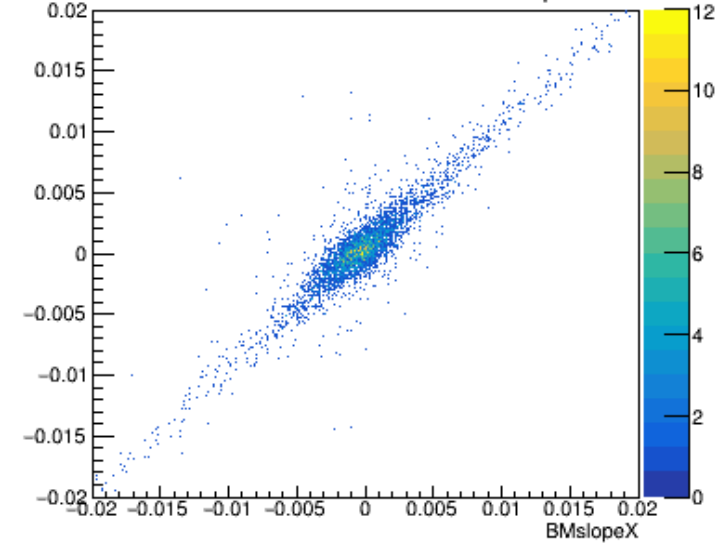
BM originX vs VTX originX for all the evts



Residual of BM and VT tracks projected on the target X coord



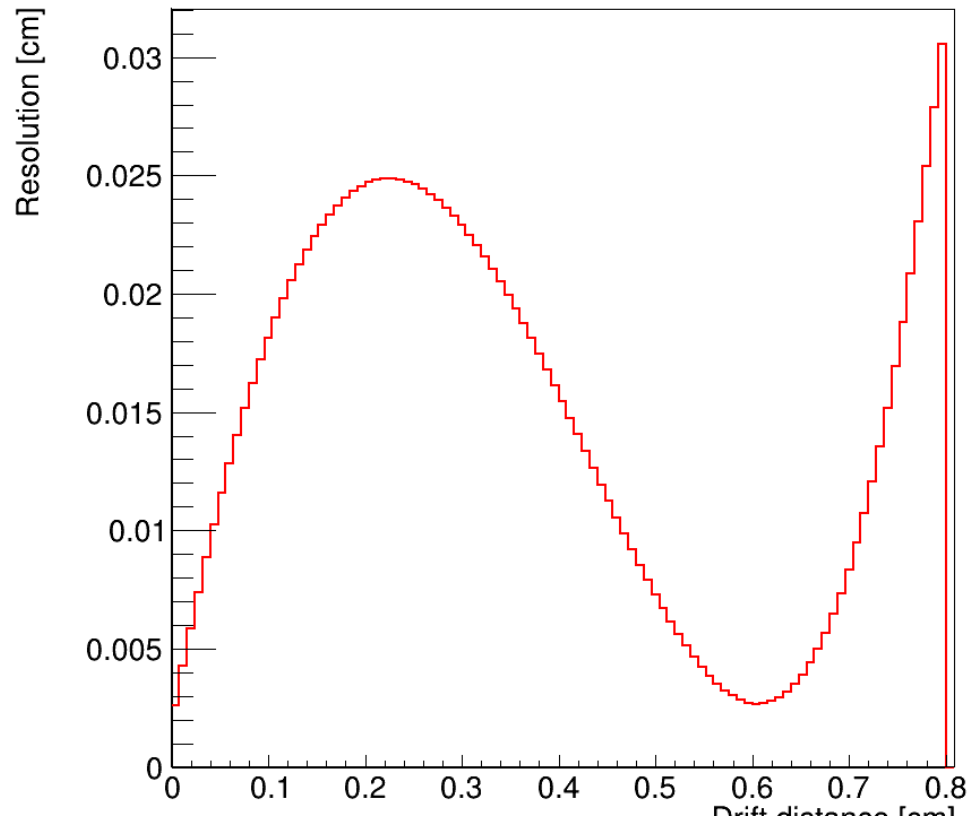
Residual of BM and VT slope X



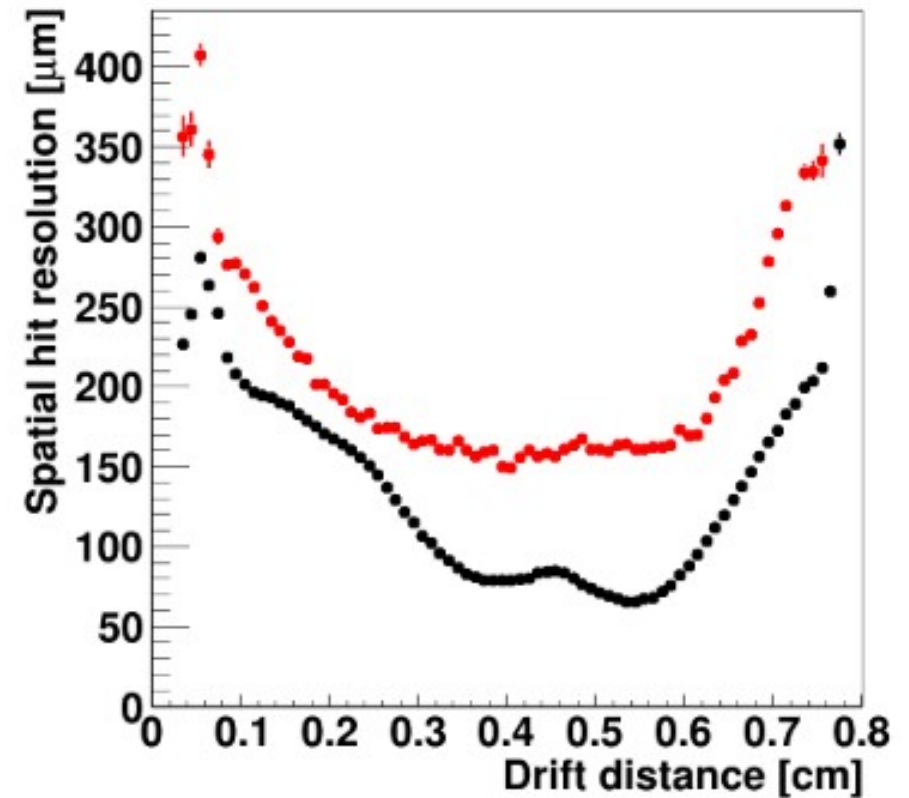
- No unsynch data in tier3/GSI2021synched data folder (but only few runs tested)
- BM – VT residual of the order of hundreds of micrometers, compatible with the BM resolution
- Correlation between BM slope.X and the residual of the BM and VTX tracks, not everything is fully understood

BM @ GSI2021 (run 4313)

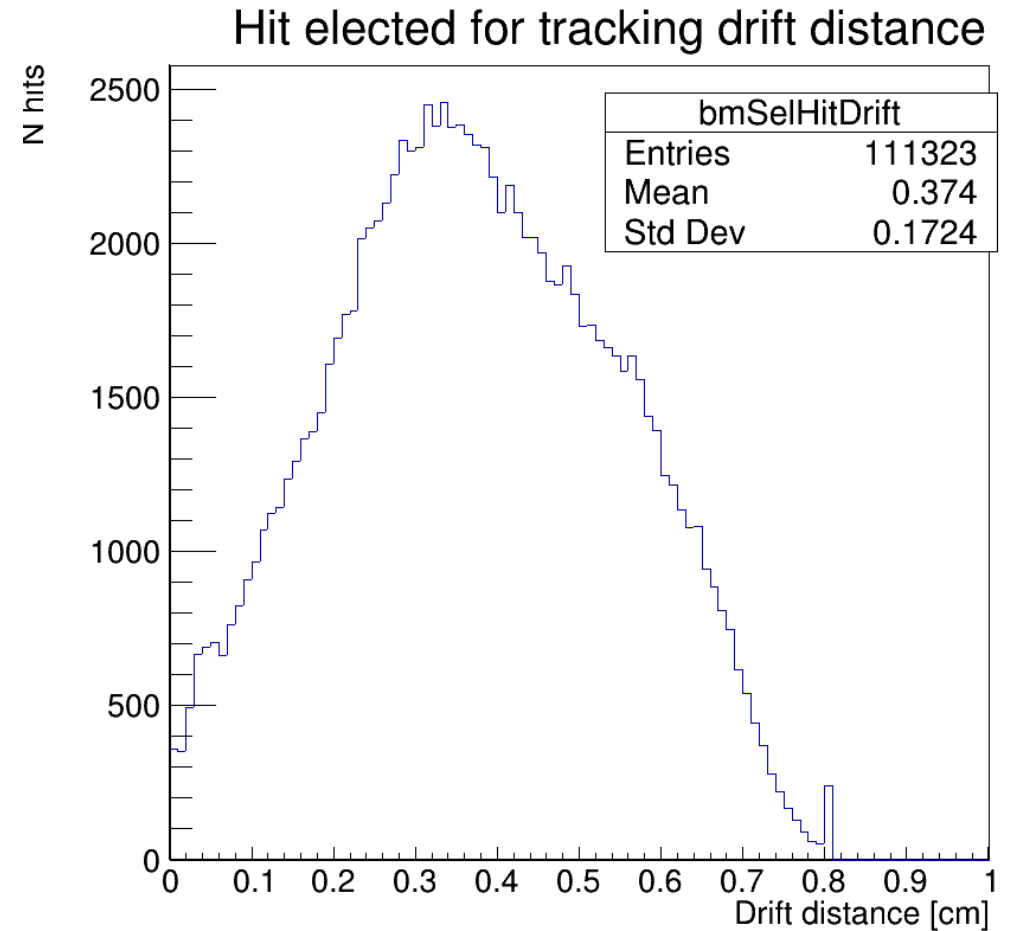
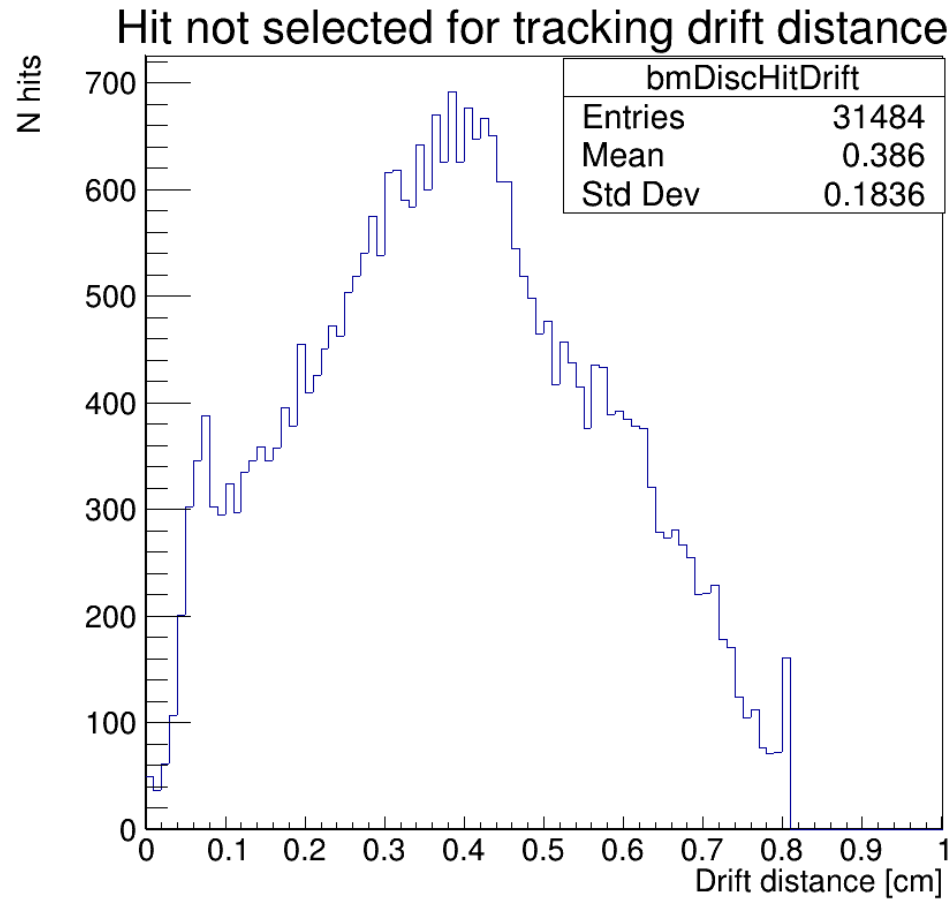
BM resolution GSI2021



Trento with [P@228](#) MeV

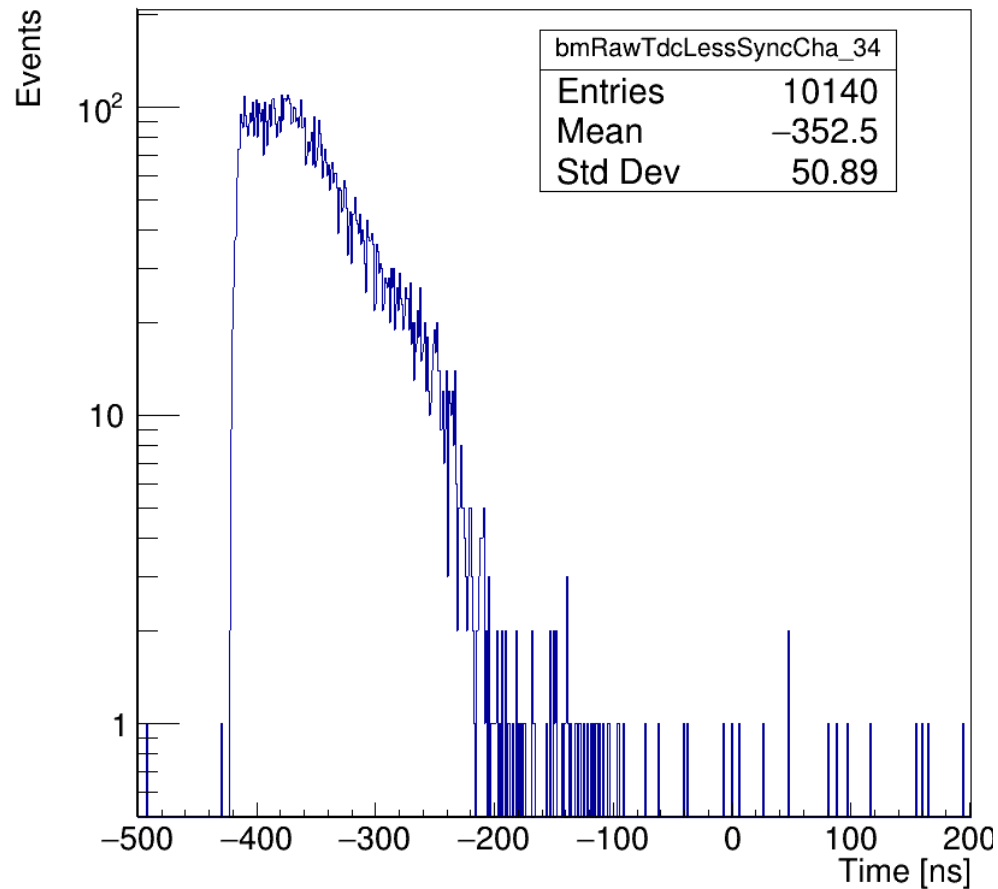


BM @ GSI2021 (run 4313)

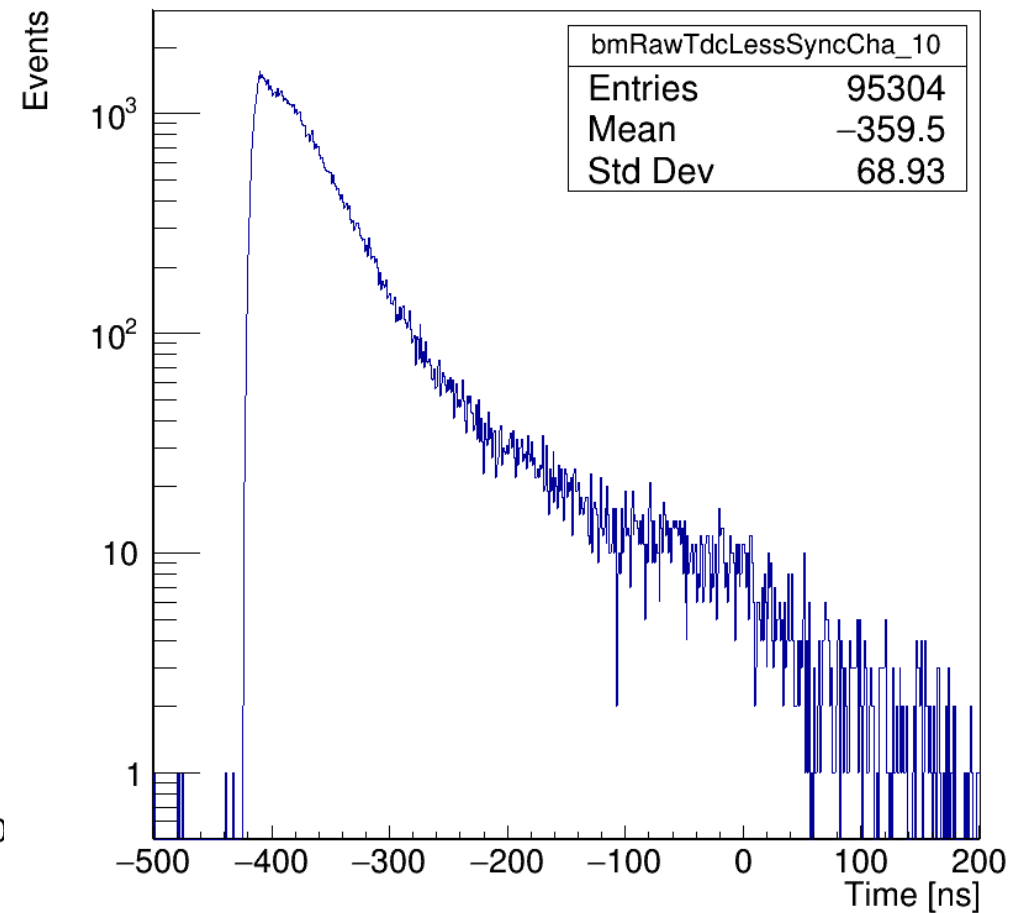


BM @ HIT2022

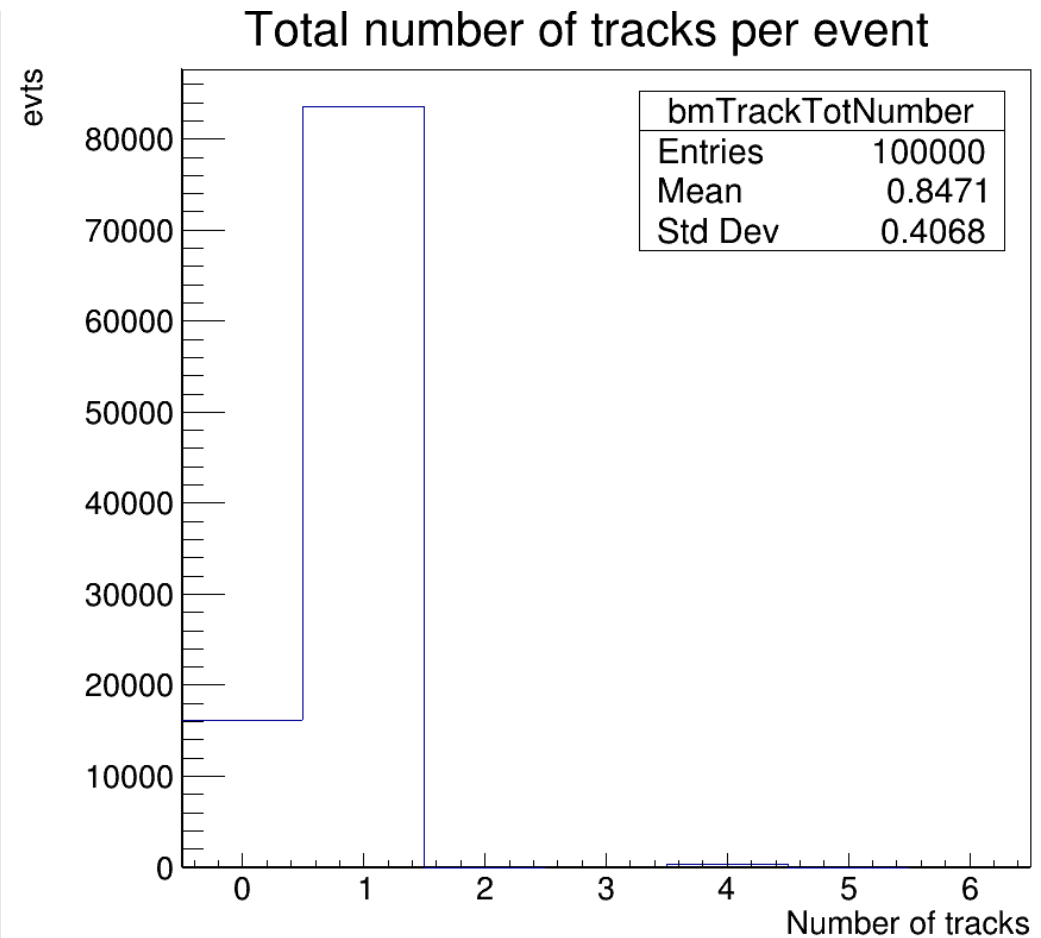
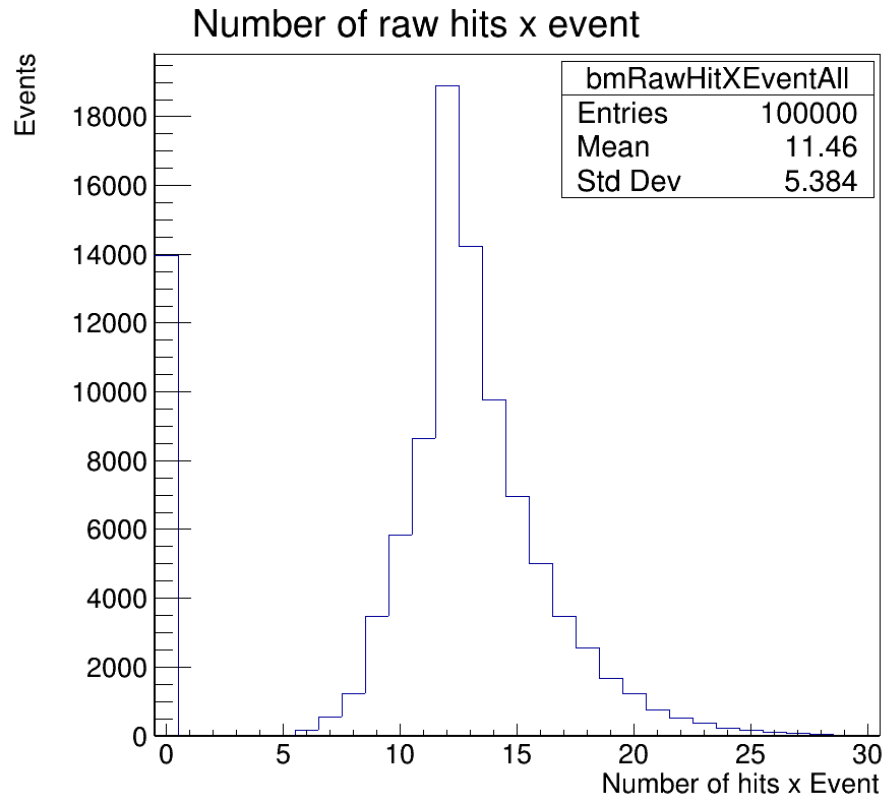
TDC – sync measurement for a BM cell
GSI2021



HIT2022

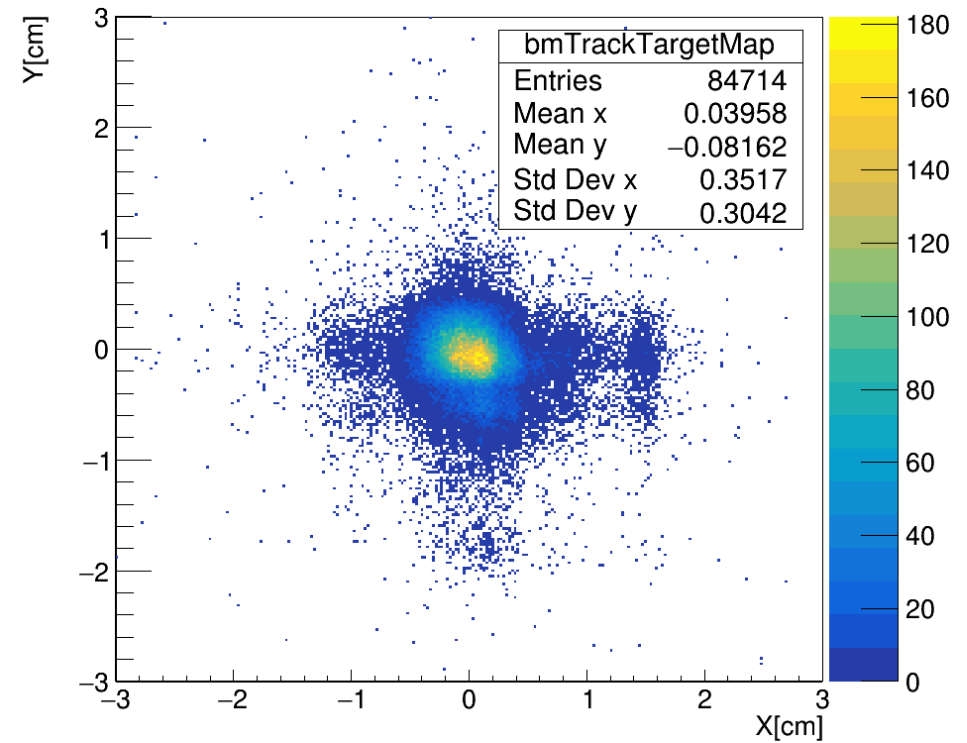
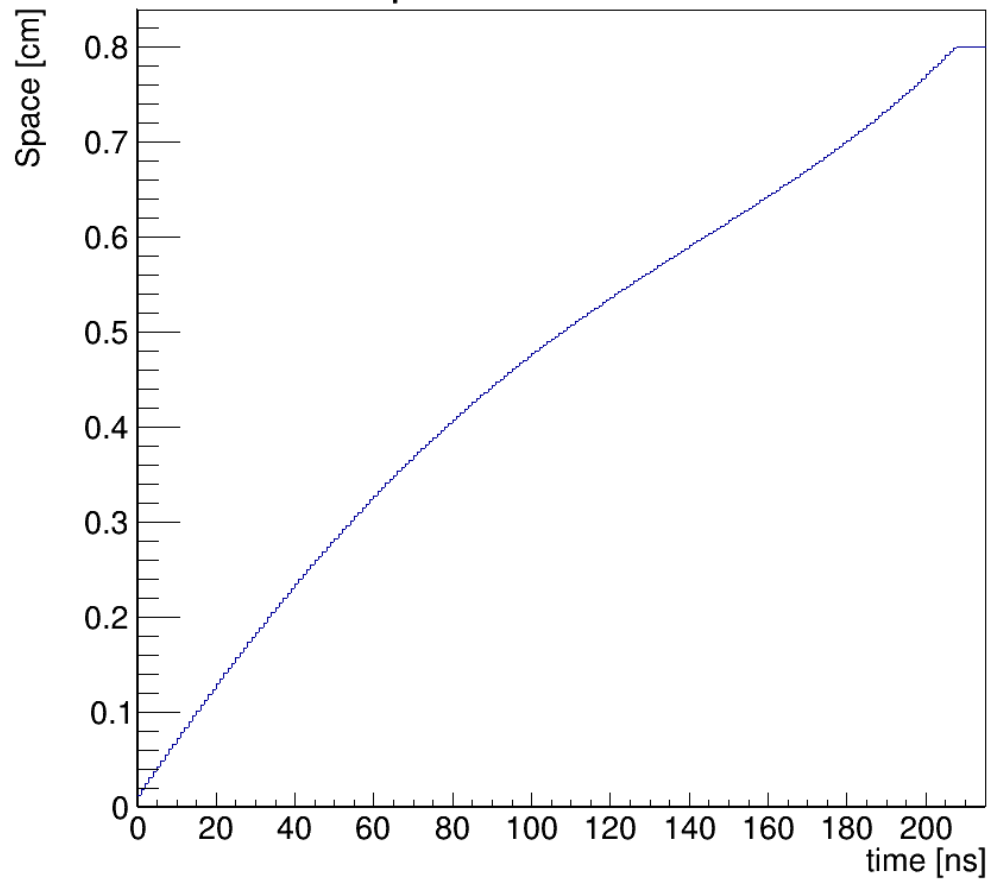


BM @ HIT2022



BM @ HIT2022

Space time relations



BM @ HIT2022

