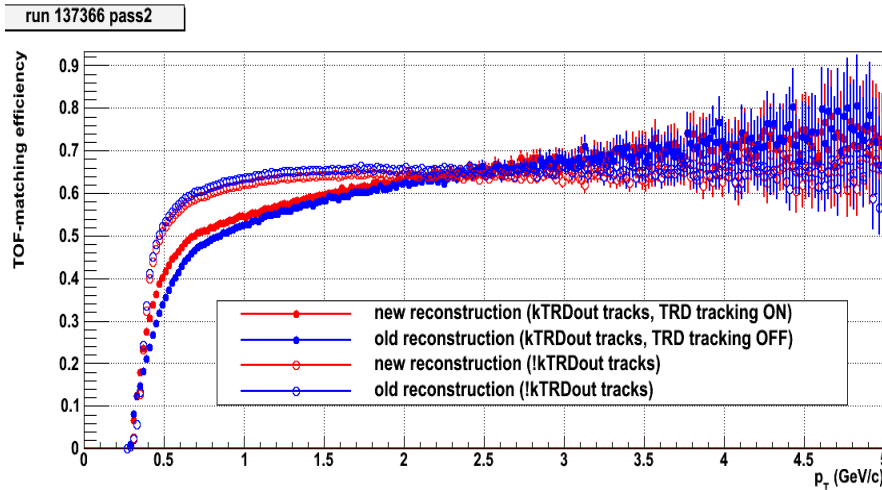




Test pre-production LHC10h pass2

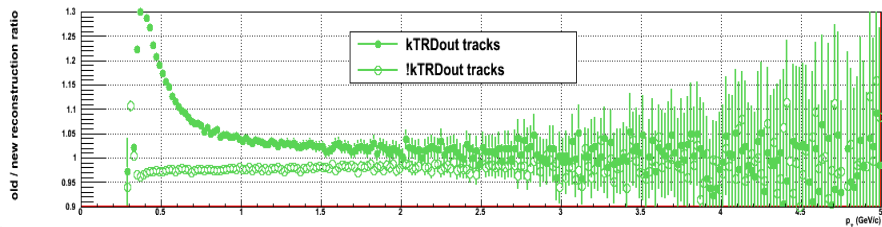
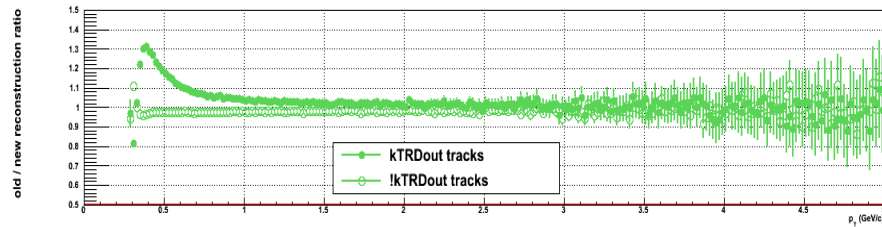
A.De Caro on behalf of ALICE TOF group

R.Preghenella checked the TOF performance (track-TOF matching and track residuals) in last LHC10h pass2 pre-production data, shown in the next few slides.

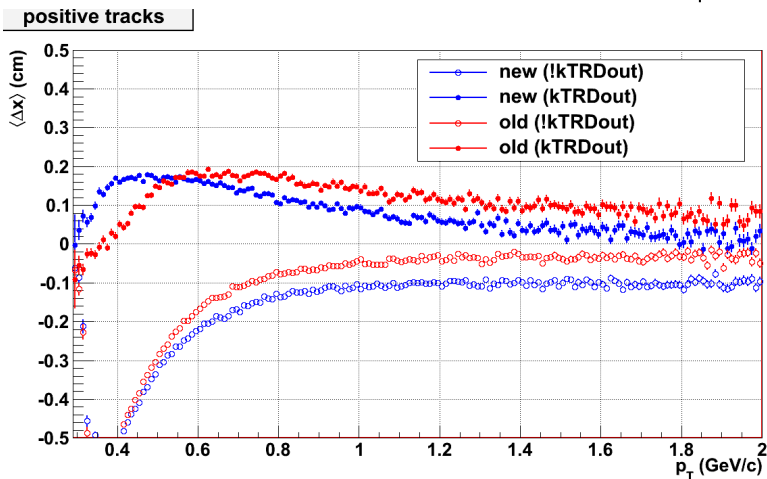
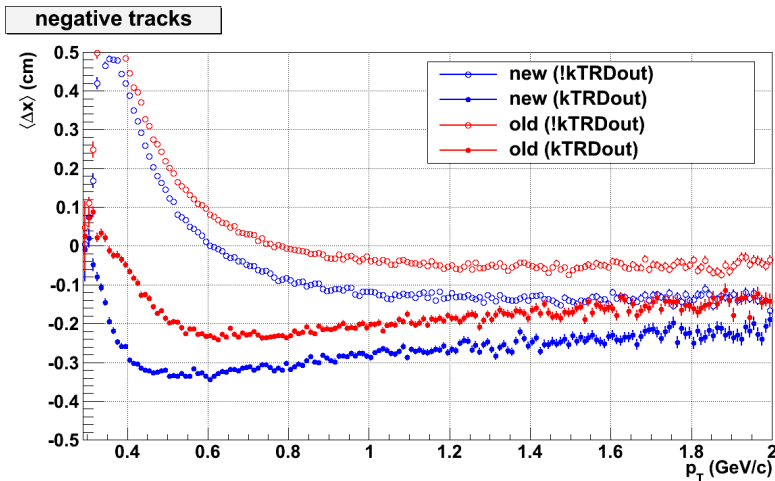
Track-TOF matching efficiency



- For TRD reconstructed tracks 
- For no TRD reconstructed tracks 
- TRD tracker improves track-TOF matching
- Something changed between previous and current LHC10h pass2 preproduction in the global tracking, before TRD, probably in the TPC and/or ITS.



Local X track residuals @ TOF



- For no TRD reconstructed tracks:
 - The observed $|\Delta x|$ shifts in previous and last pre-productions are coherent for positive/negative tracks as well as for tracks w/o kTRDout flag;
 - From previous to current pre-production, $|\Delta x|$ increases.
- Something changed between previous and current LHC10h pass2 preproduction in the global tracking, before TRD, probably in the TPC and/or ITS.

Conclusions

- TRD tracker as in current LHC10h pass2 preproduction **improves** the track-TOF matching performance.
- General **worse** ($\sim 5\%$ less) in track-TOF matching performance not related to the TRD tracker but to the internal tracking detectors.