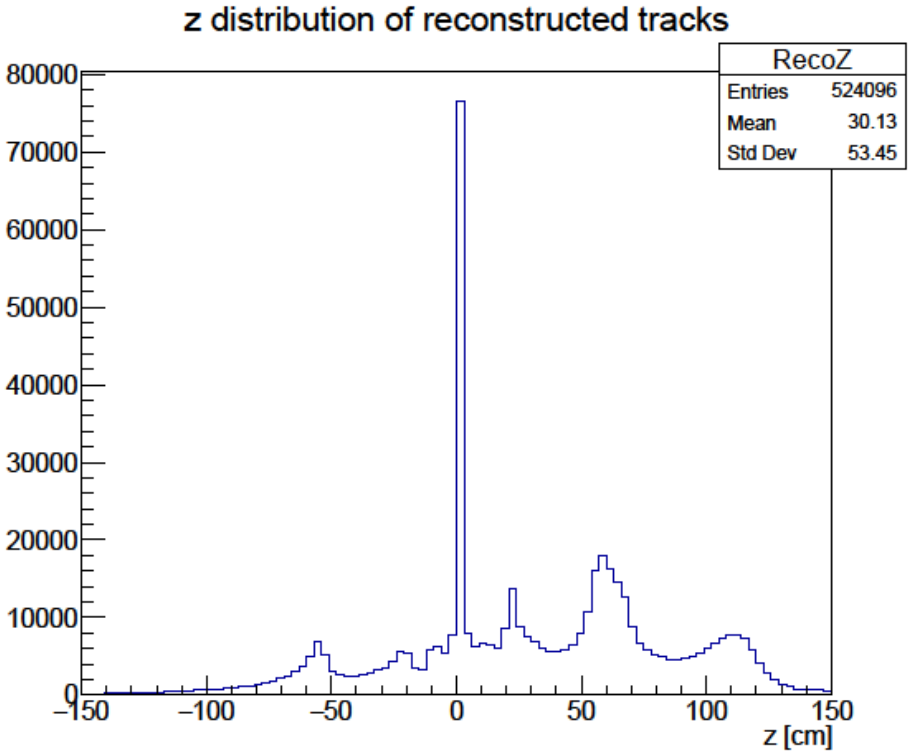
More Phase3 z-Trigger Analysis

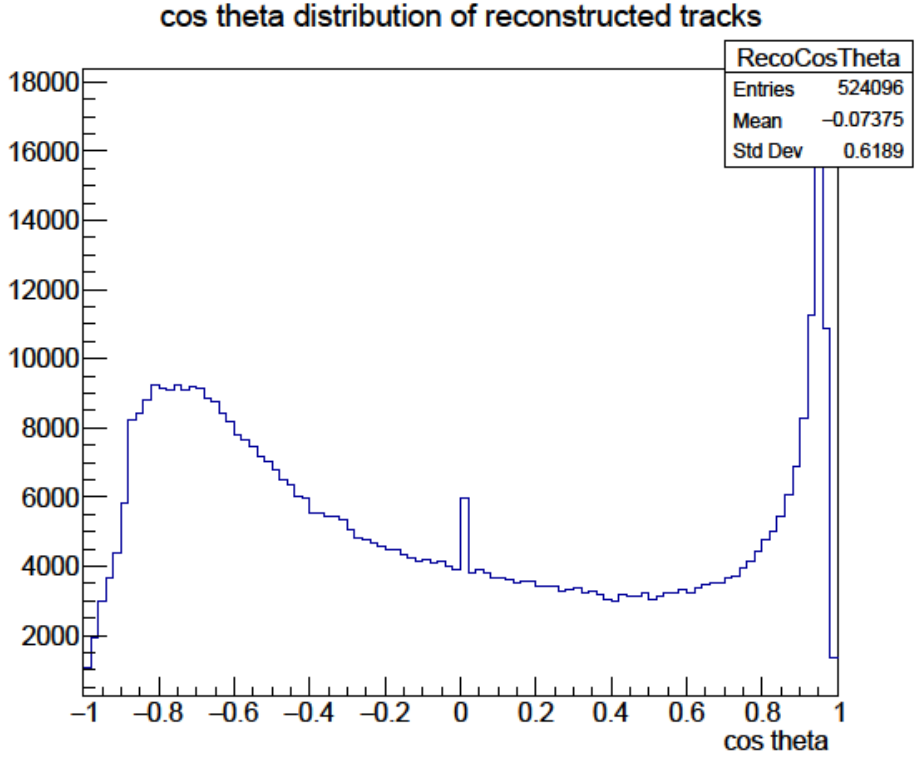
Purpose:

Study a „good luminosity run“, defined from the trigger side

Data Analysis

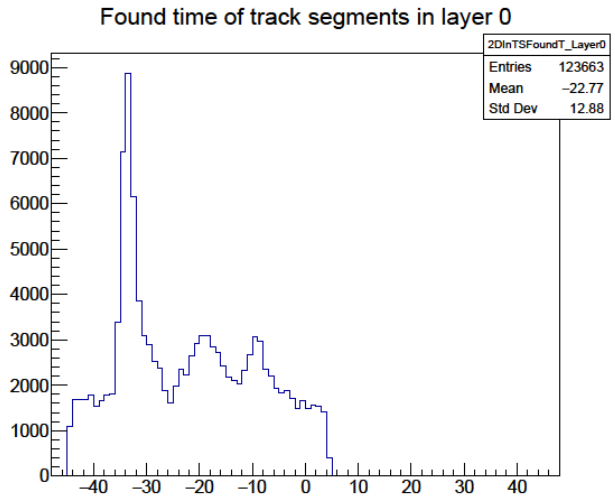
Data reconstruction: BASF2 release-03-01-00
Input: DST from run 1152, March 28, 2019, 8:31 JST

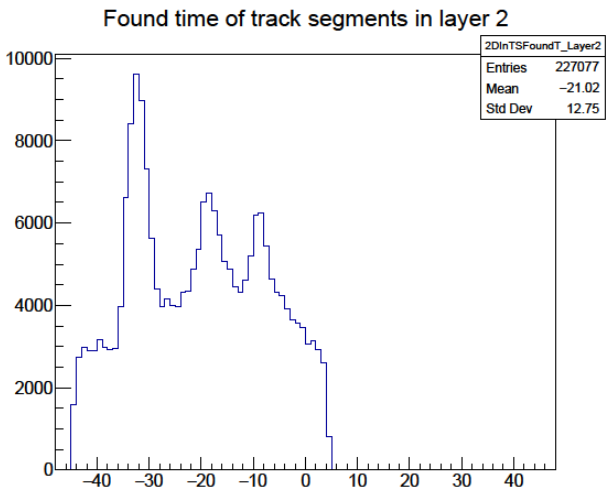


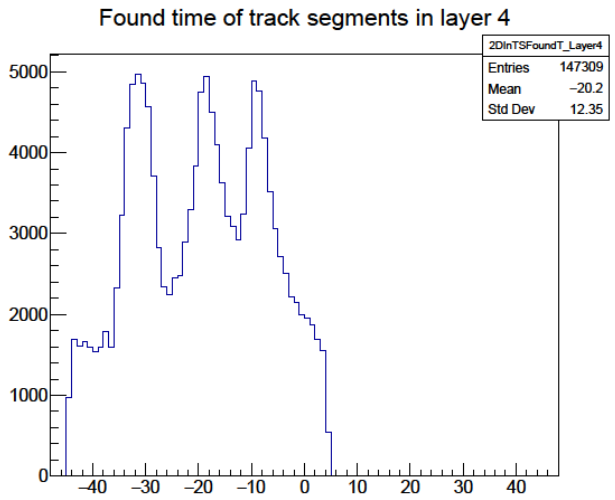


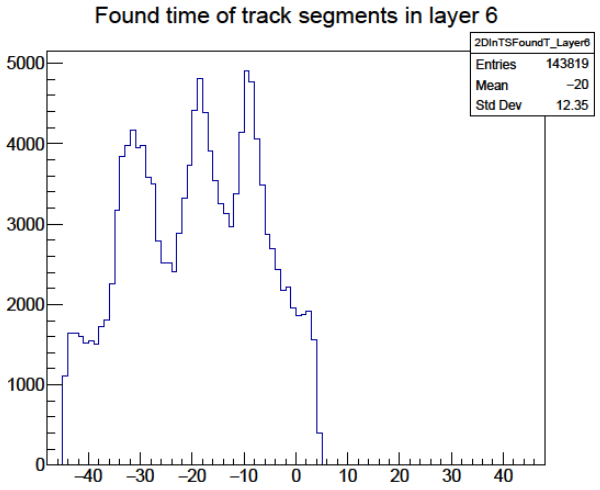
Total of 524,000 tracks

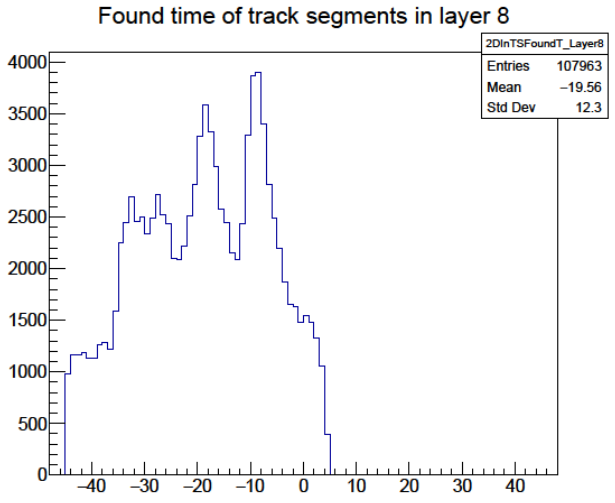
Data Analysis





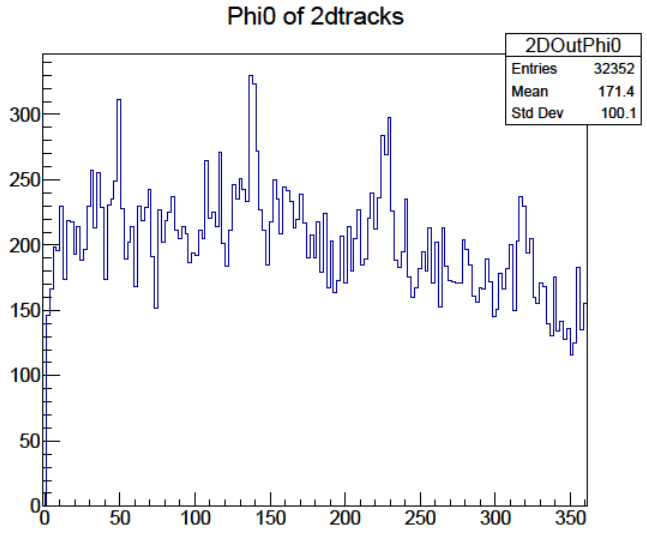


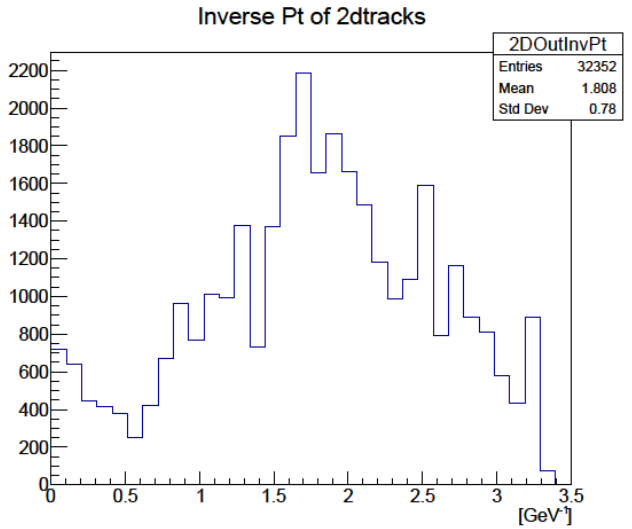


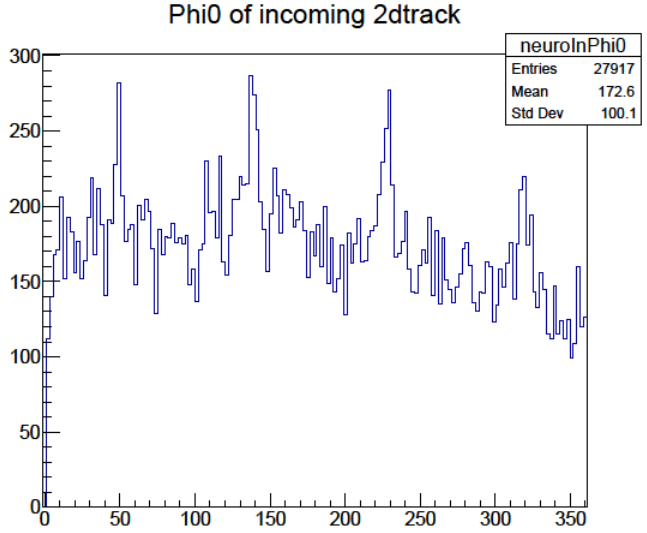


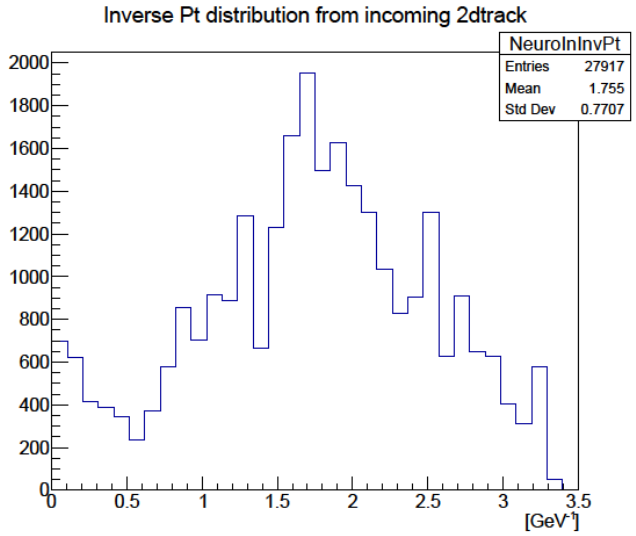
2D tracks: ~ 140,000 (?) (for 524,000 reco tracks) ~ 27 %

Data Analysis



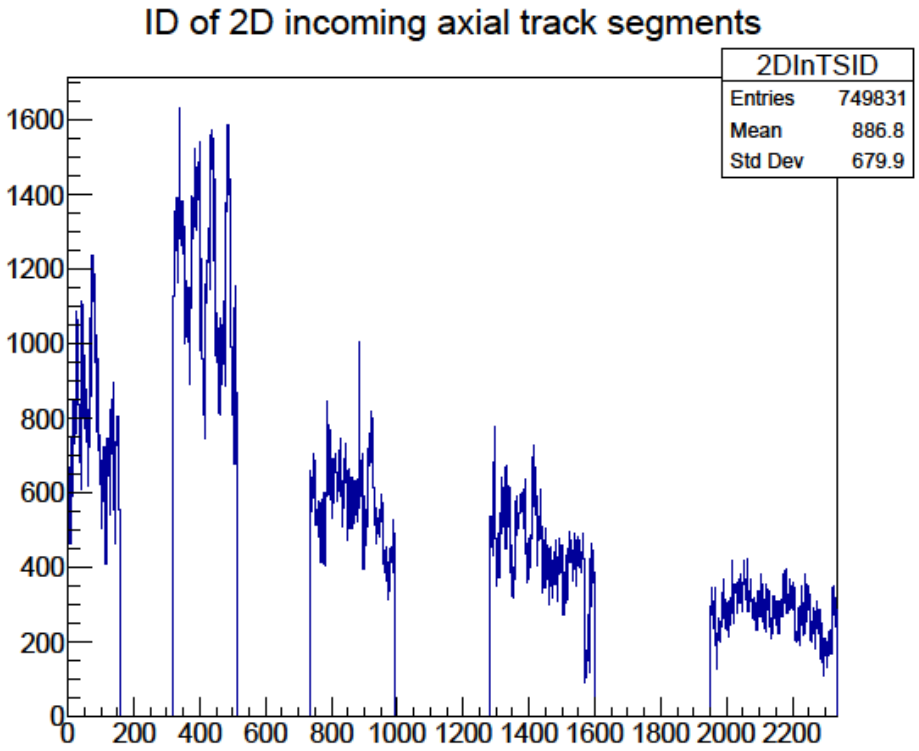


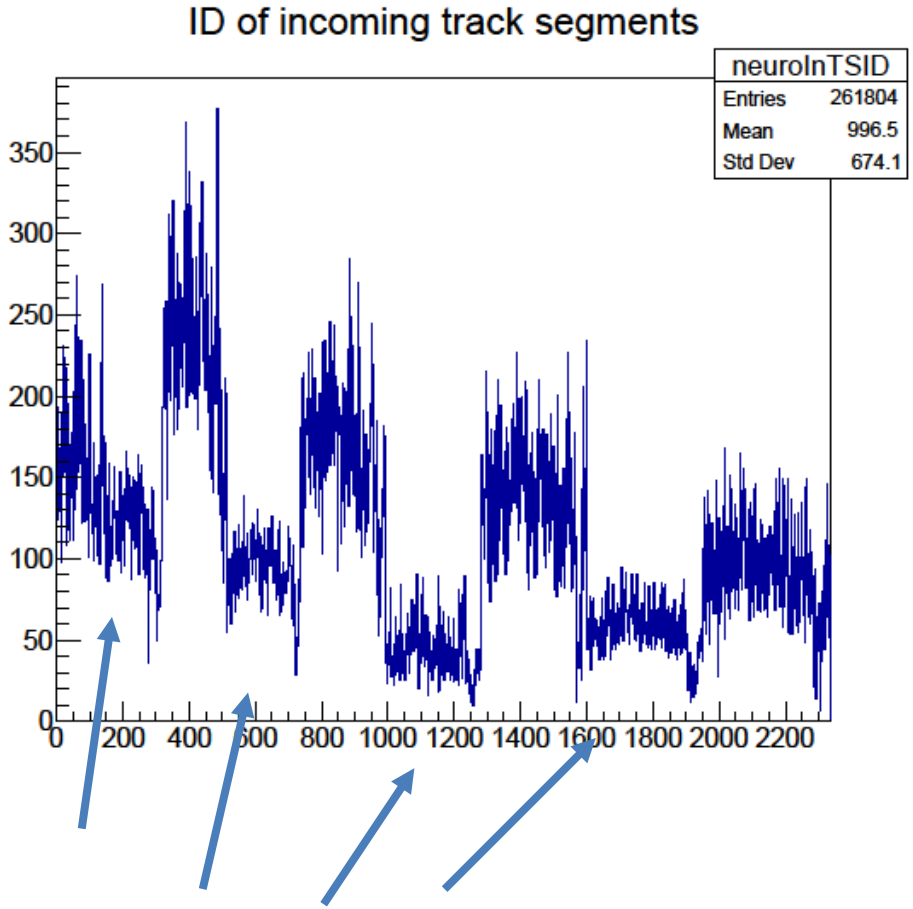




2D tracks 32,000 tracks -> 28,000 neuro tracks (from 524,000 reco tracks) ~ 5%

Data Analysis

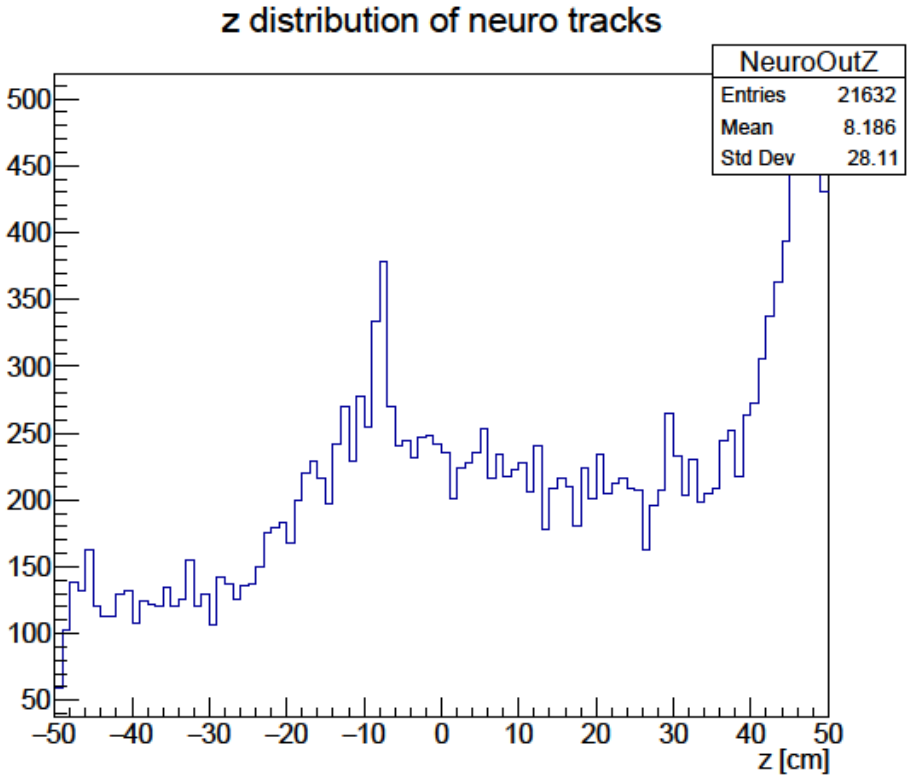


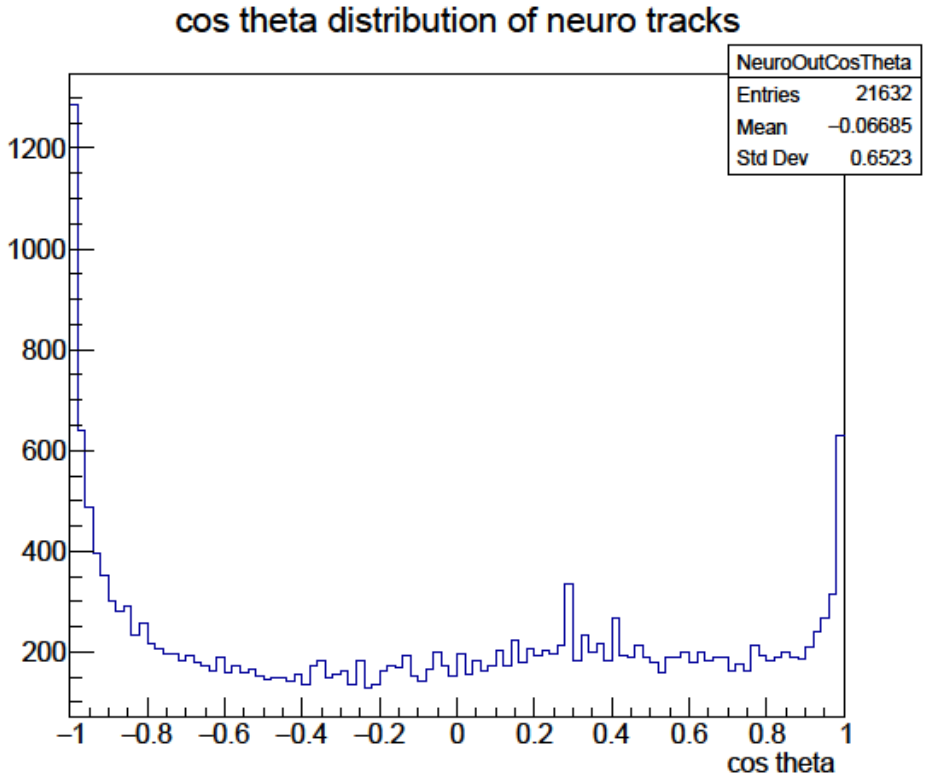


Only about 1/3 of axial TS from 2D lead to a neuro track !??

much less stereo track segments compared to axials

Data Analysis





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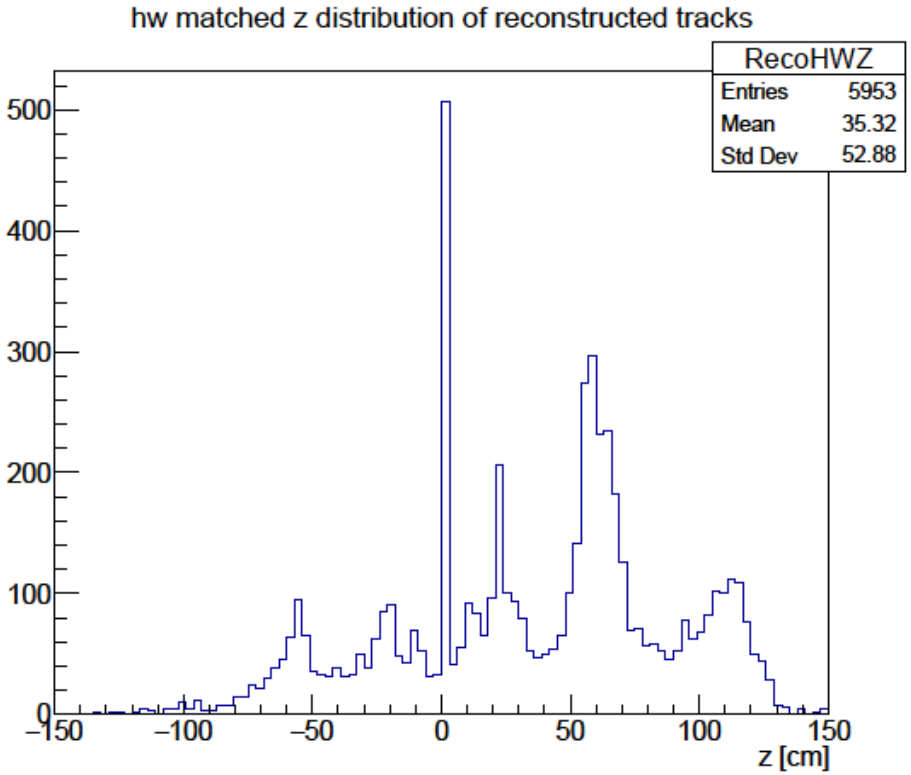

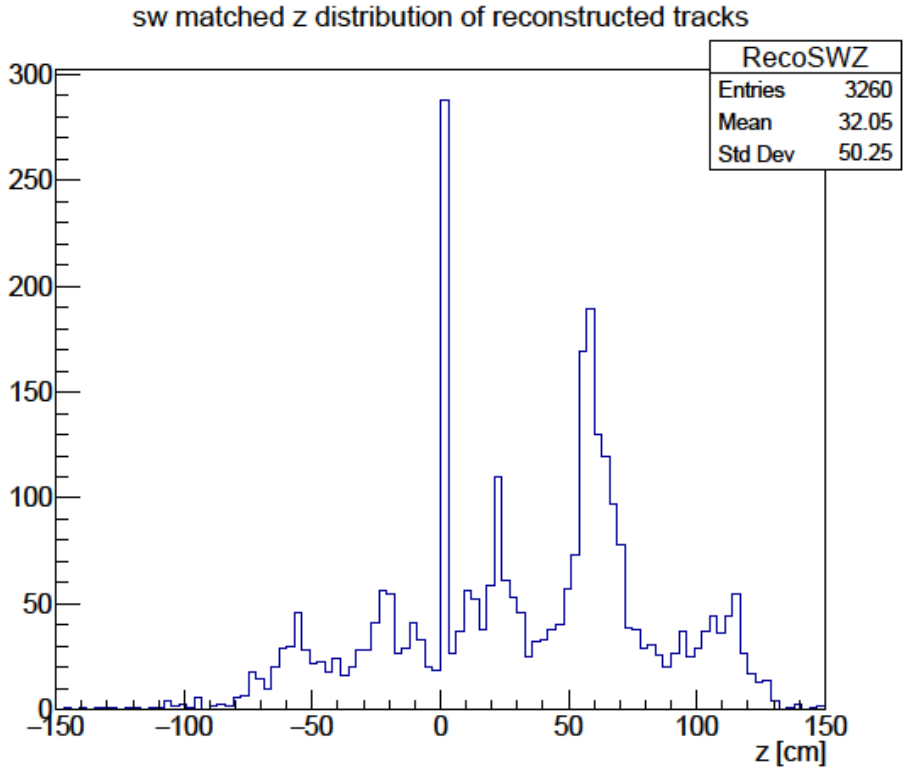

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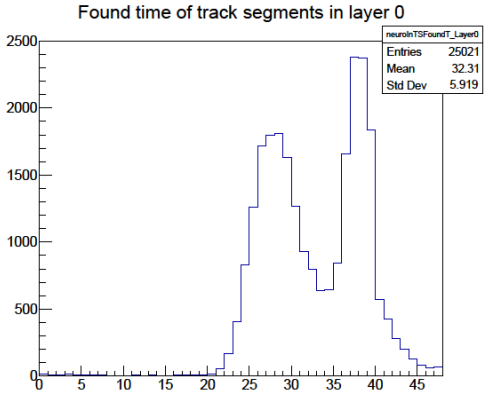

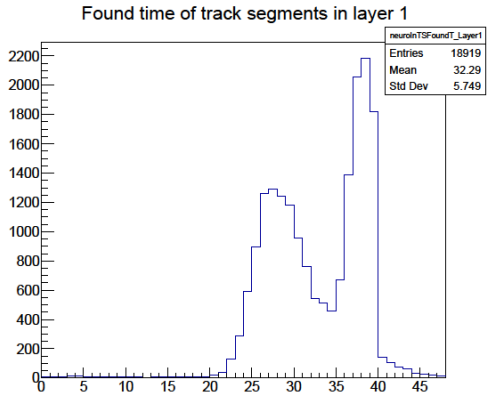

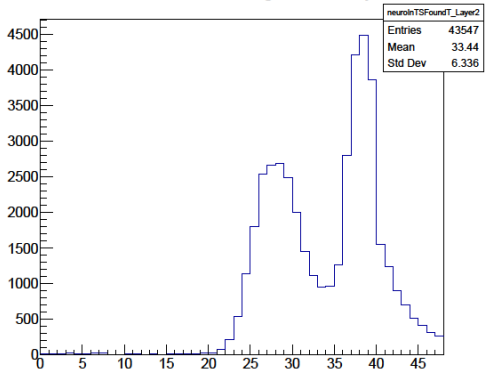

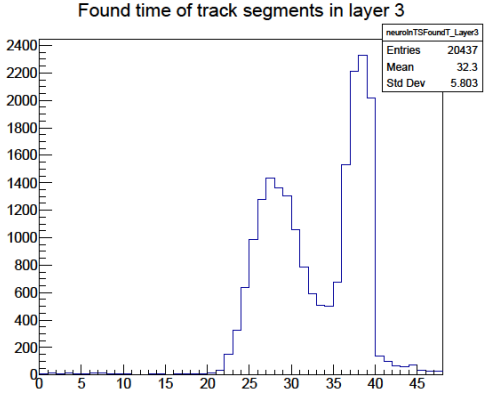

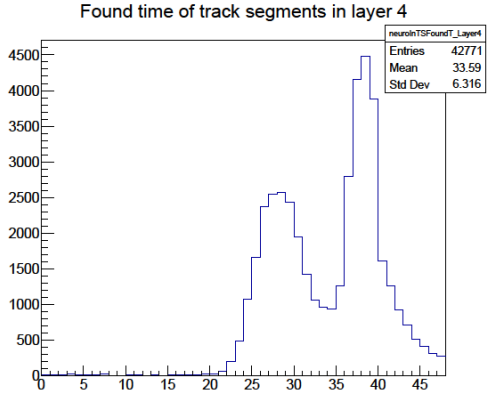

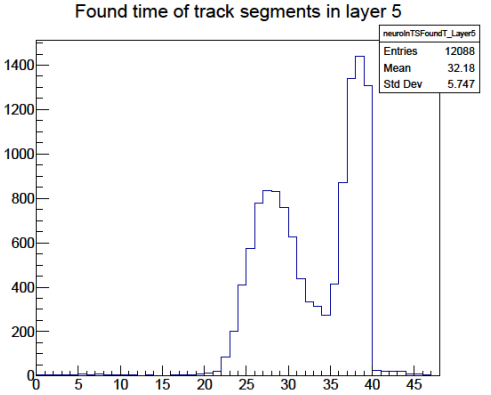

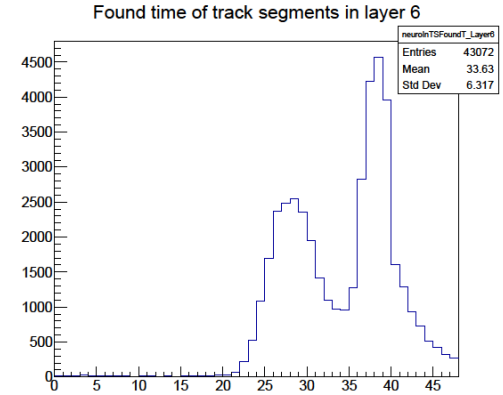

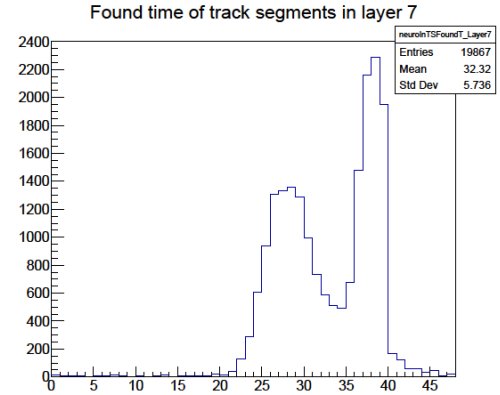

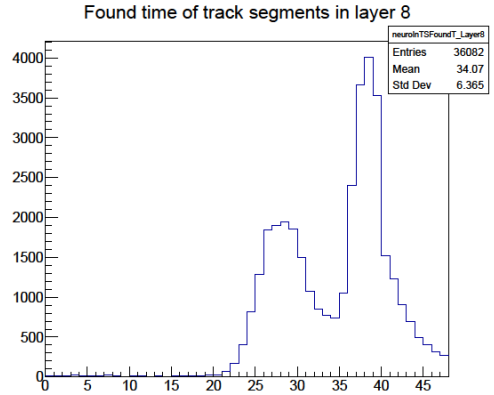

Conclusions

Look a lumi run classified as „good“

- Qualitatively similar to the run 1020
- But in total now about 5% of tracks also result in neuro-tracks (1020 was about 1%)

- Still massive loss in the trigger chain from tracks to 2D tracks.