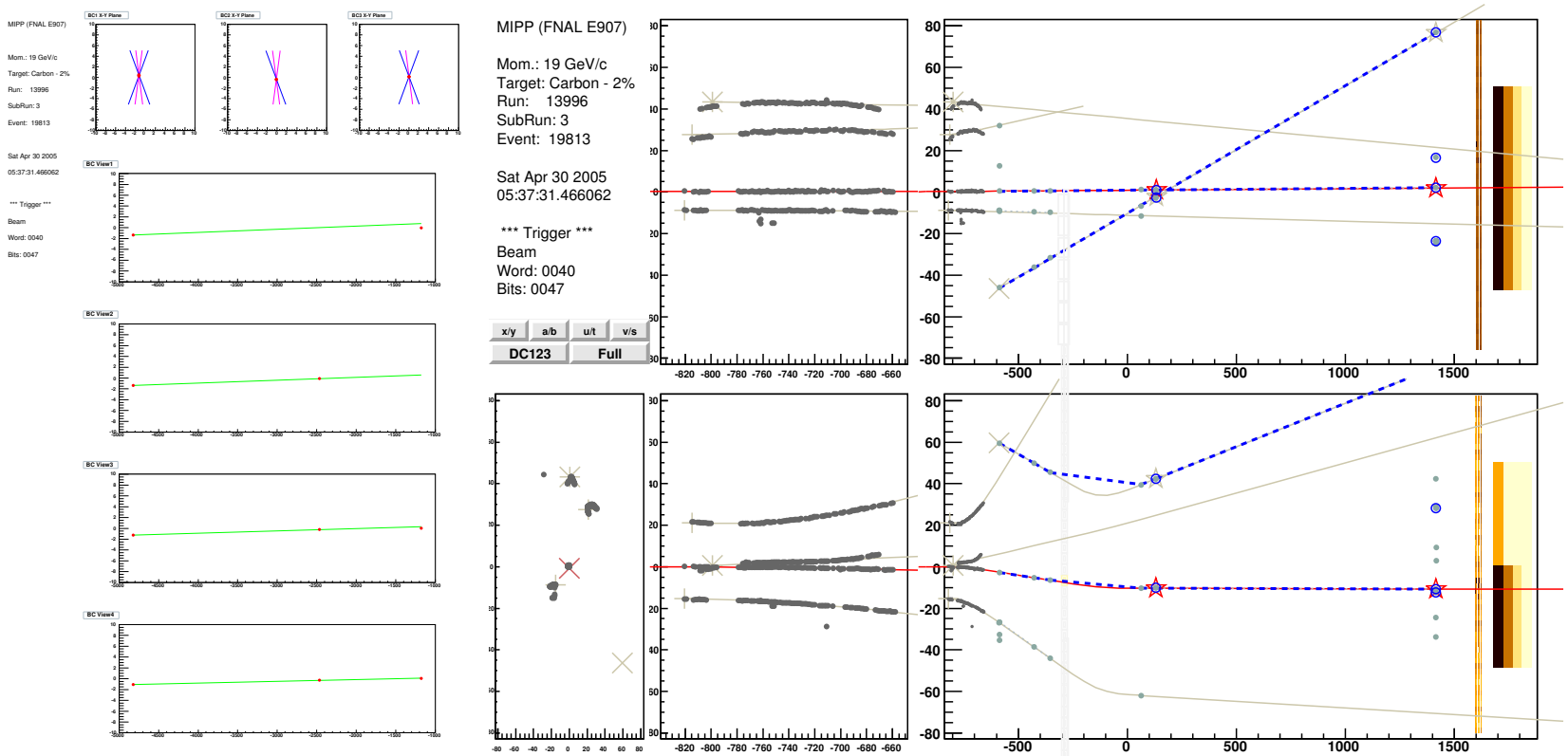
run:13996 event:19813



I clearly see 5 tracks on this events: 4 in TPC and 1 in WC. What DST tells about? evt->NTrk()=3, they listed below:

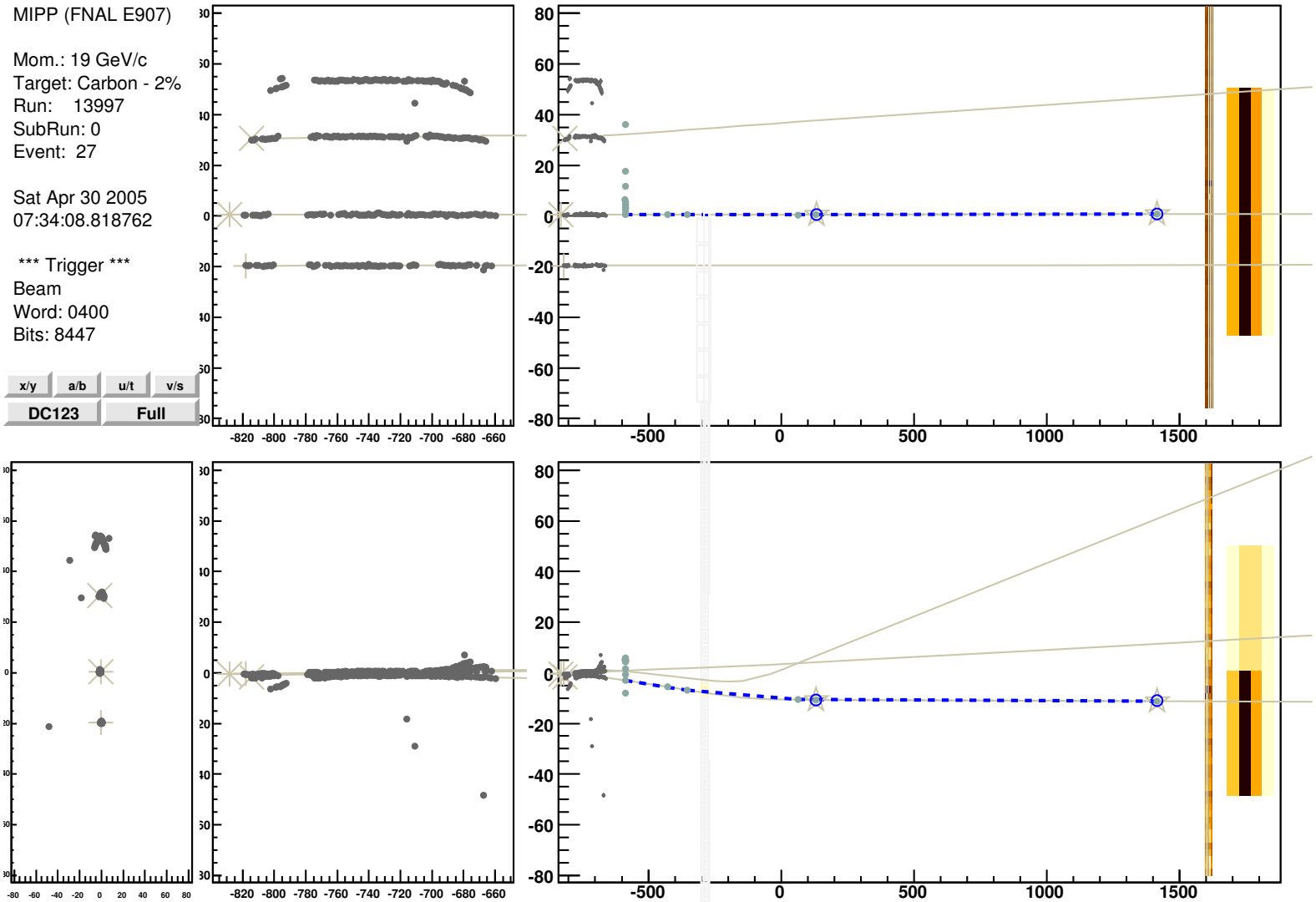
trk1->avgt=-146.5 trk1->x[0]=-15.31 trk1->x[1]=-8.72 trk1->x[2]=-820.7 eventDisplay: Trk 3 T=-147ns, xyz are same

trk1->avgt=0 trk1->x[0]=21.16 trk1->x[1]=27.51 trk1->x[2]=-814.8 eventDisplay: Trk 4 T=0ns, xyz are same

trk1->avgt=330.49 trk1->x[0]=59.52 trk1->x[1]=-46.54 trk1->x[2]=-587.8 eventDisplay: Trk 6 T=330ns, xyz are same

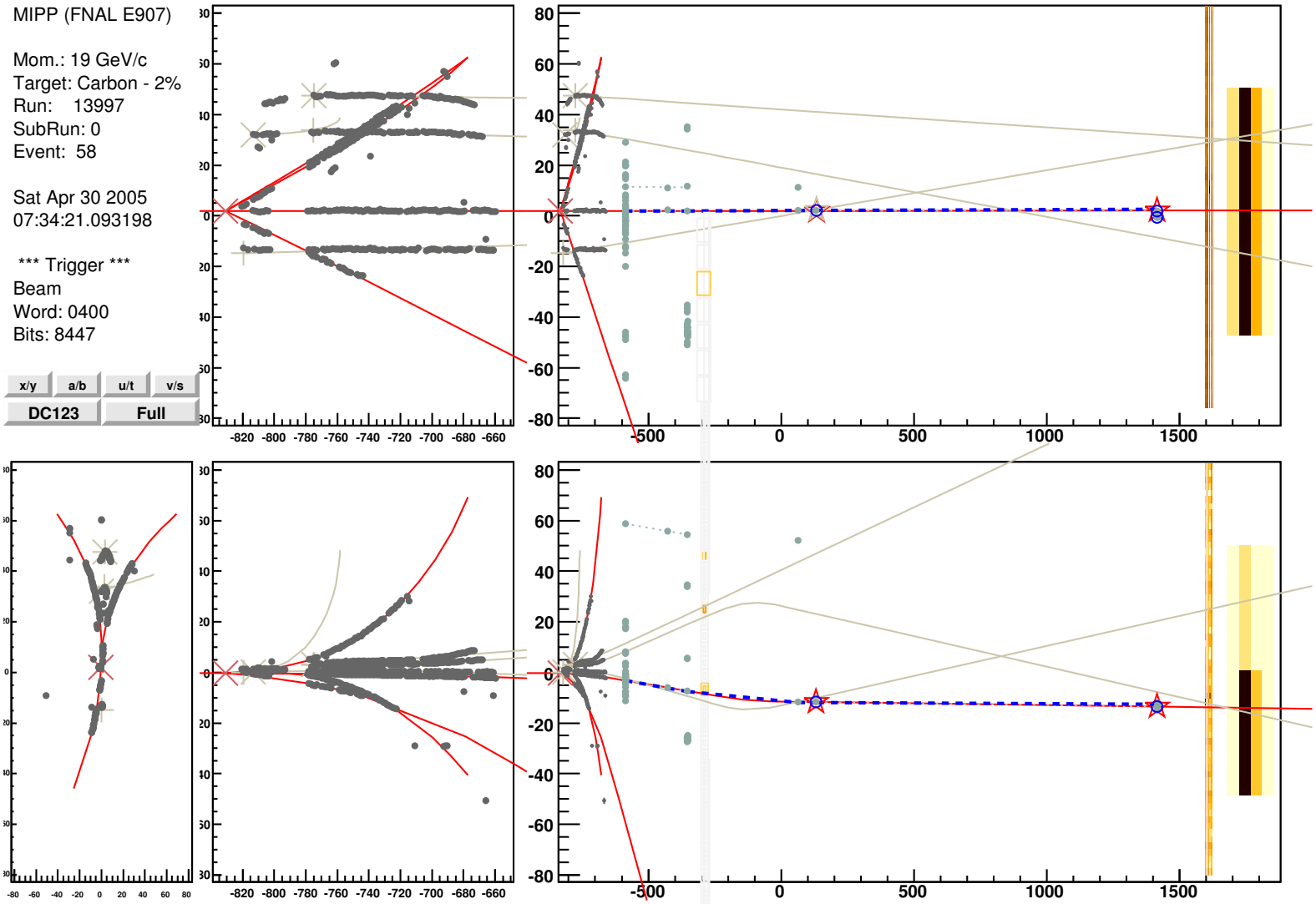
What missed in DST pass 4a: Track 2 space points=89 T=15ns, Track 5 space points=75 T=183 ns. Why?

run:13997 event:27



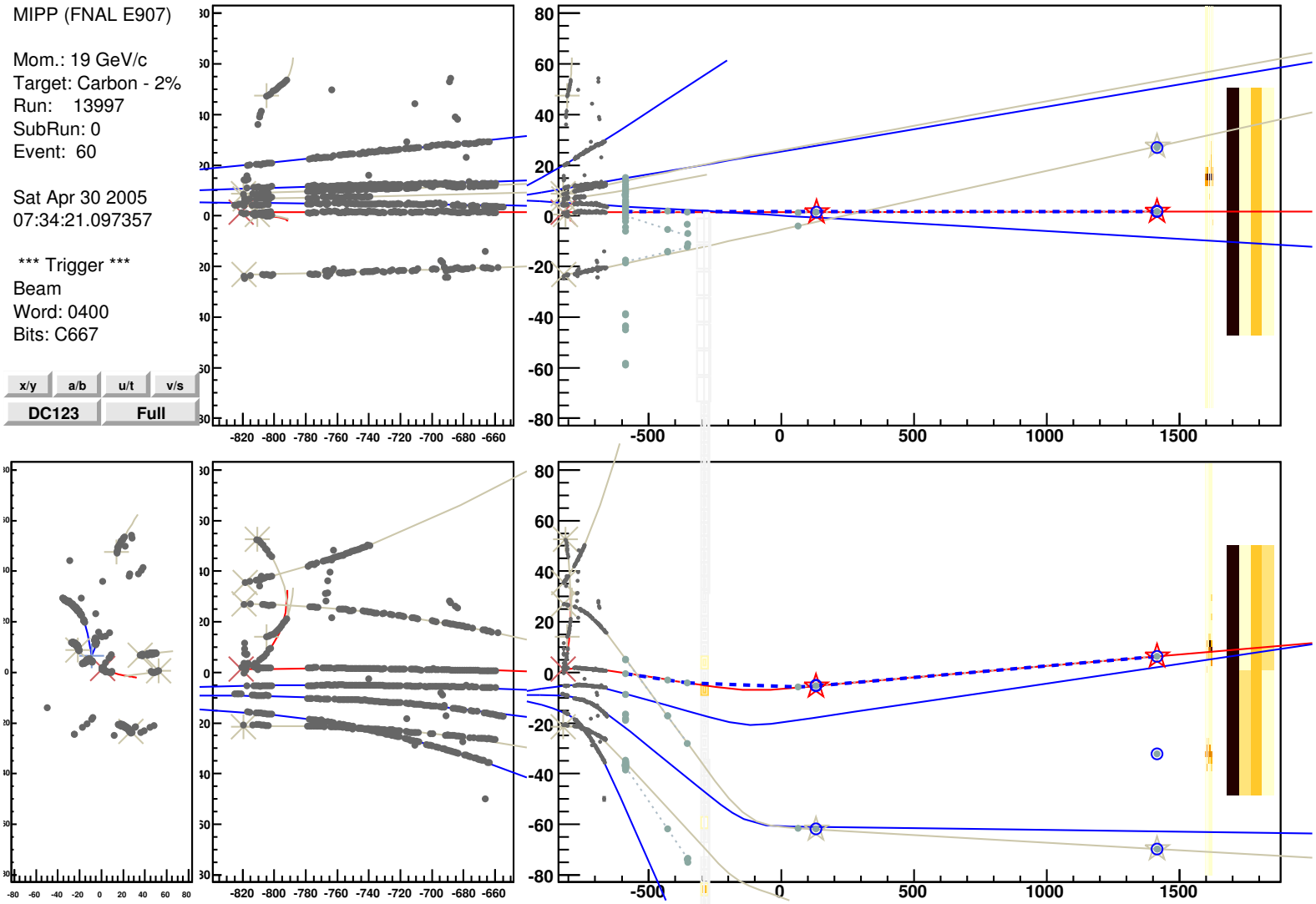
There are 3 tracks on this event. DST pass 4a: 4 tracks

run:13997 event:58



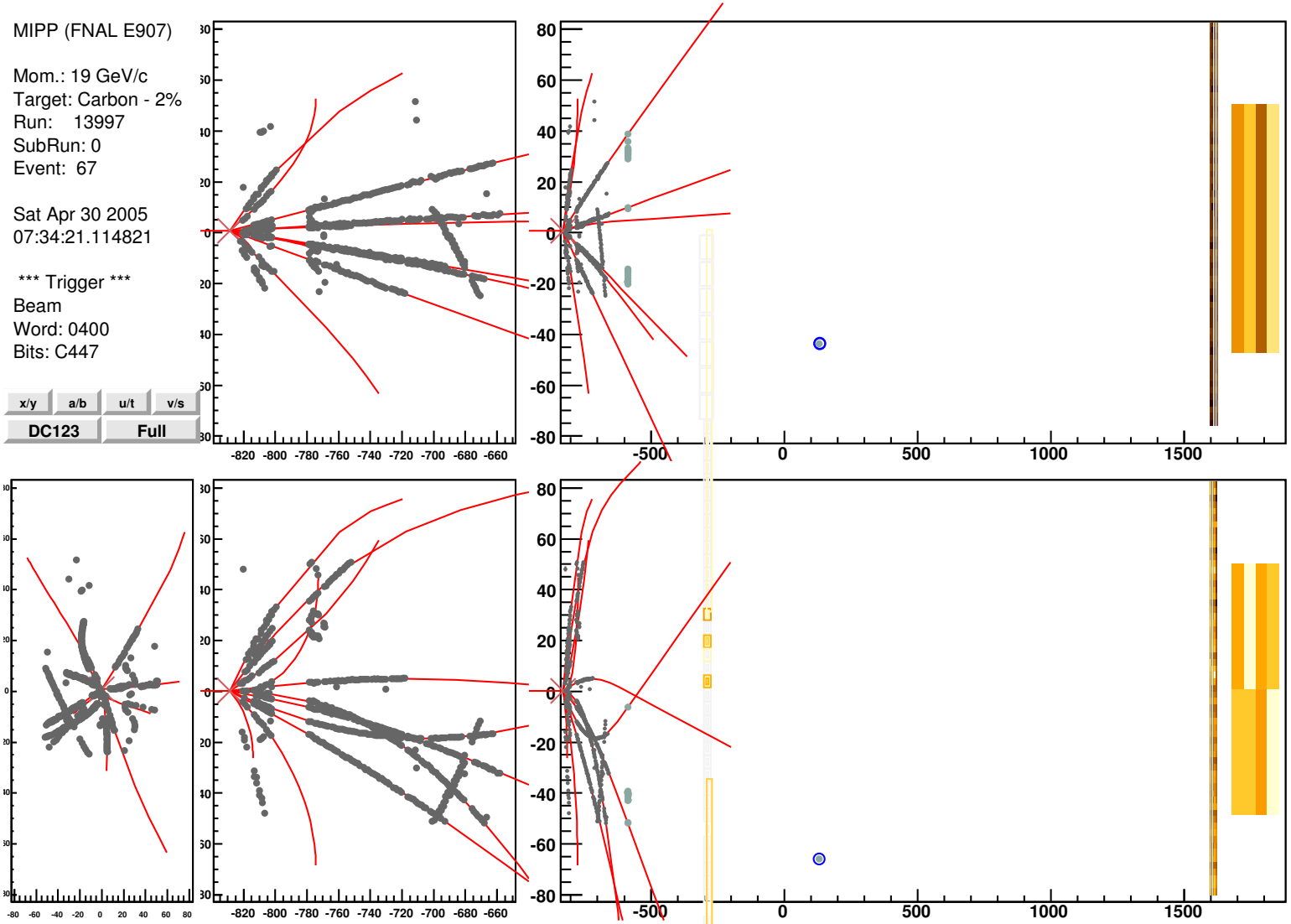
There are 8 tracks on this event (better to count on top view). DST pass 4a: 7 tracks

run:13997 event:60



There are 10 tracks on this event (better to count on top view). DST pass 4a: 8 tracks

run:13997 event:67



There are 11 tracks on this event (better to count on top view). DST pass 4a: 15 tracks. How often this discrepancy: 4/33

summary

DST pass 4a data in $\approx$10% of events have different number of tracks in compare with what ana3 tells with development release. Why?

I guess that the running conditions are differ on different machines. A bug in codes (?)

What to do? I like to suggest following procedure:

- make the frozen release on the machine with the well known and stable environment (ana3 or ana5)
- run DSTMaker on the frozen release on same machine and make the reference plots, the reference numbers (means, rms...). The numbers better to be 10-12 digits long. Make the reference plots, numbers available for public use.
- run codes on the farm or any other local machines. Compare the plots and numbers with reference plots and numbers. If they consistent then machines are compatible. Other wise - search for a reason why they differ.