FVTX MB Trigger Status @ 20GeV

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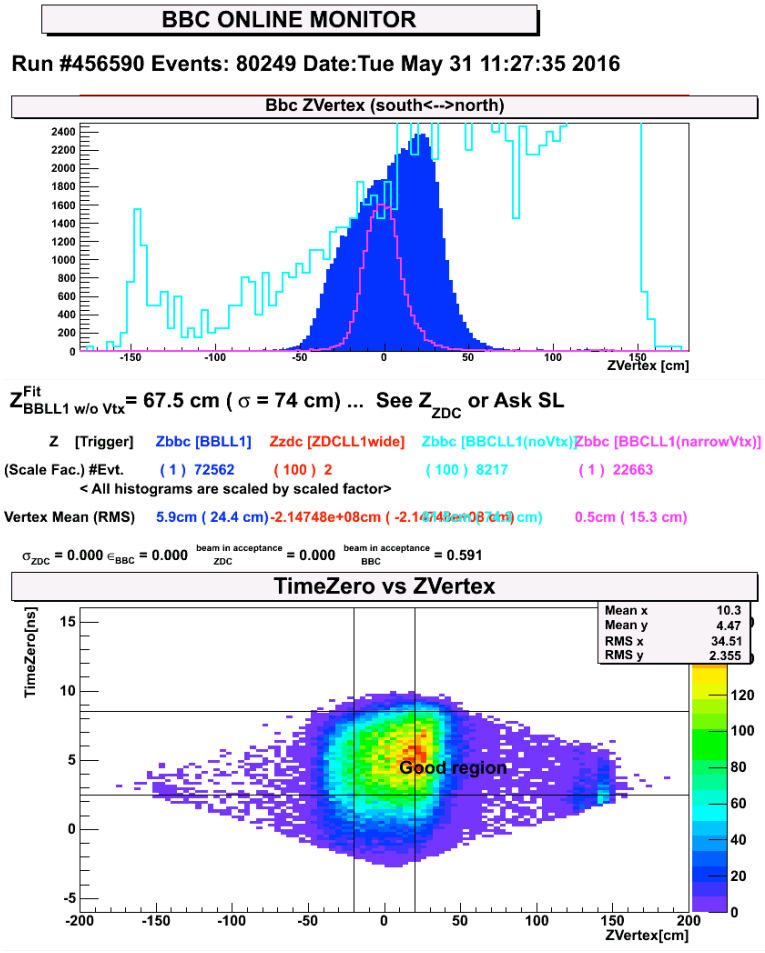
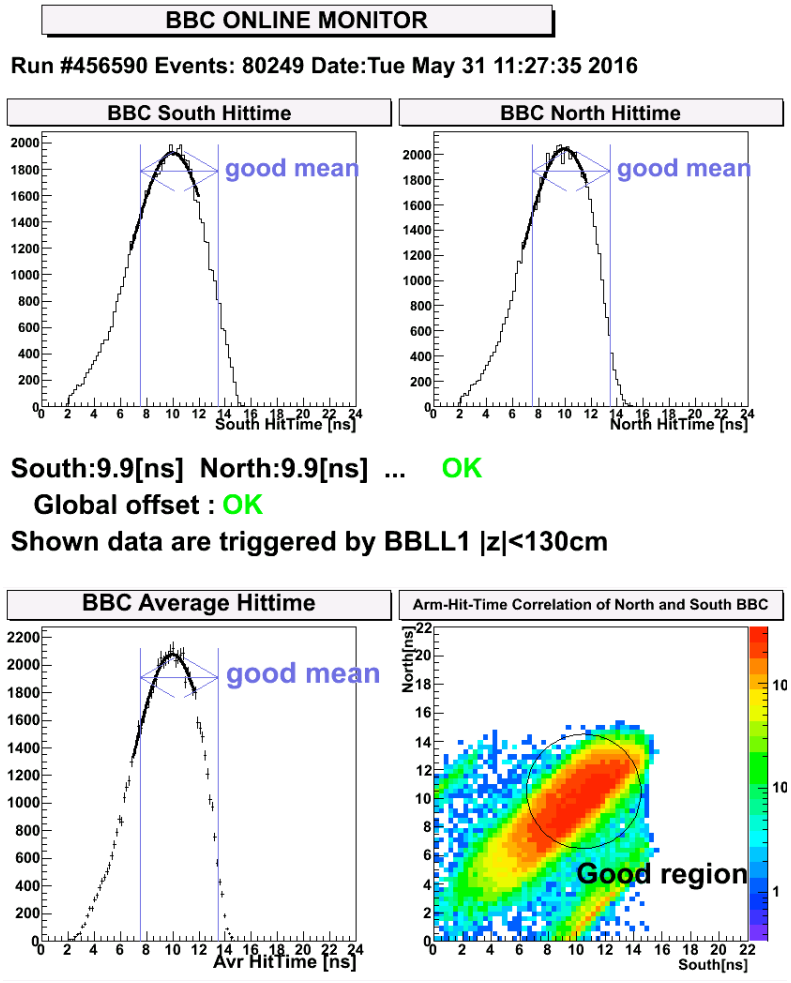
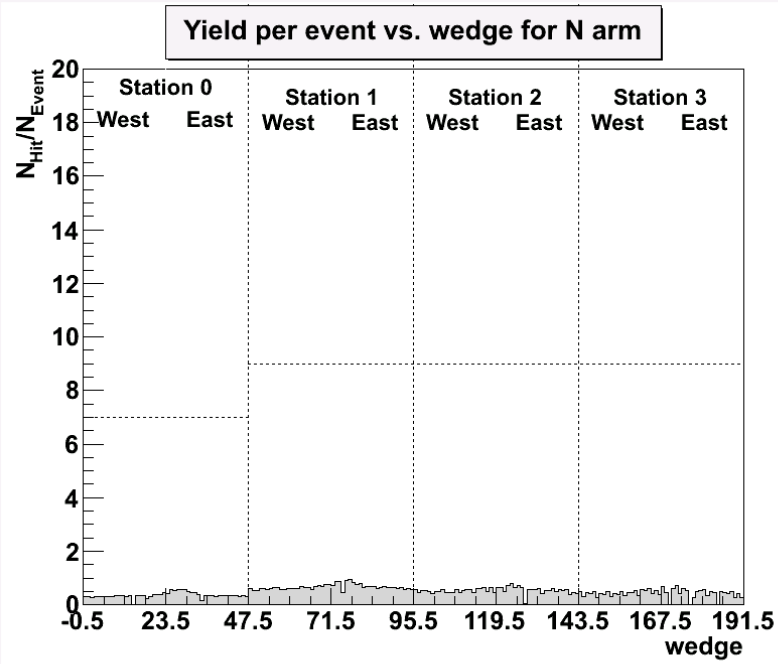
Run#456690
After BBC Timing Shift by 70ns

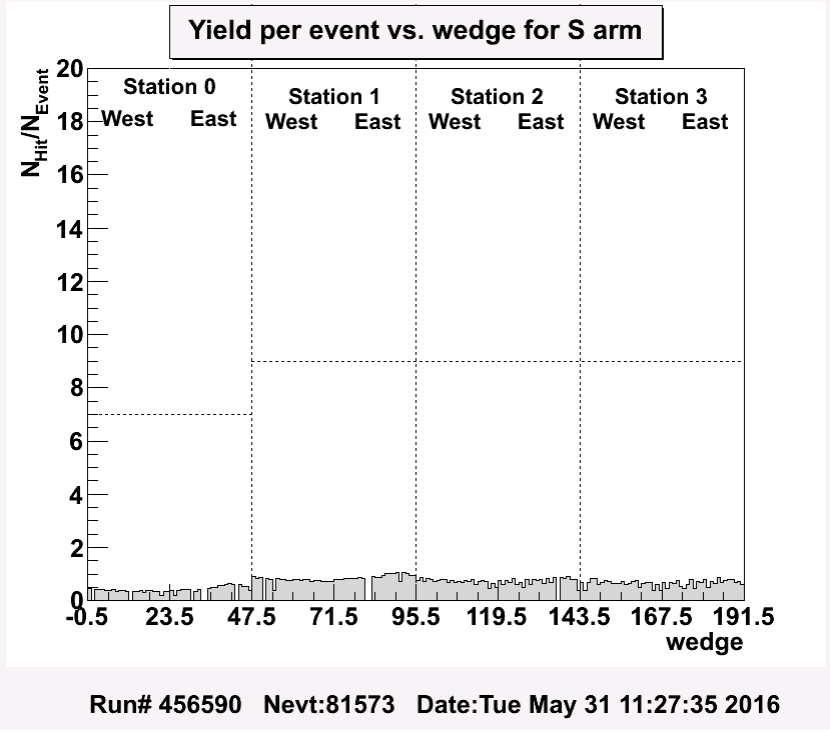




BBC Vertex makes much more sense.

FVTX average hits/event



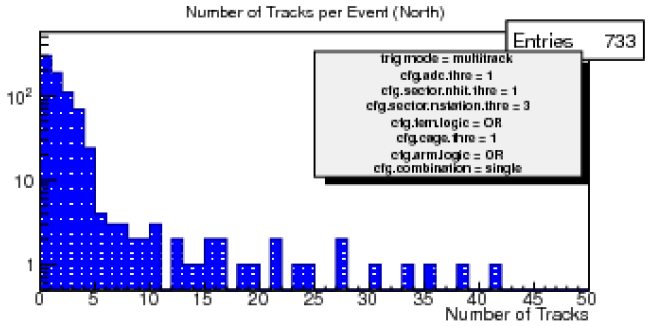


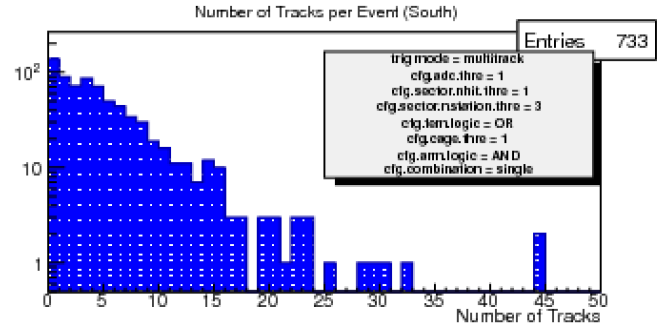
Average number of hits/event is now < 2/wedge/event. Similar to typical operation.

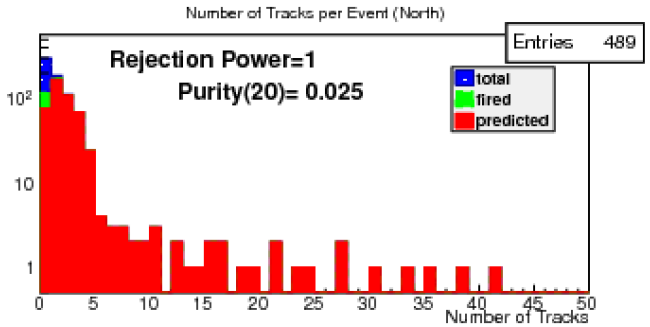
Run456590 (d+Au@20GeV) Performance

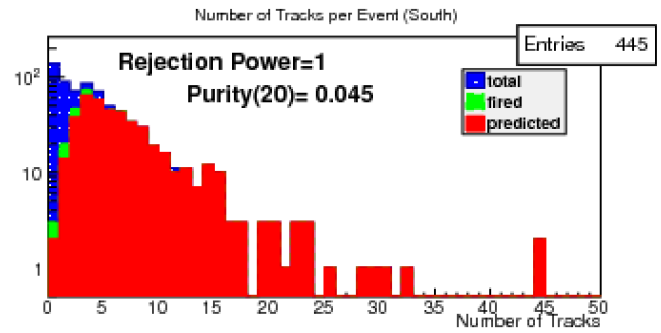
North Arm

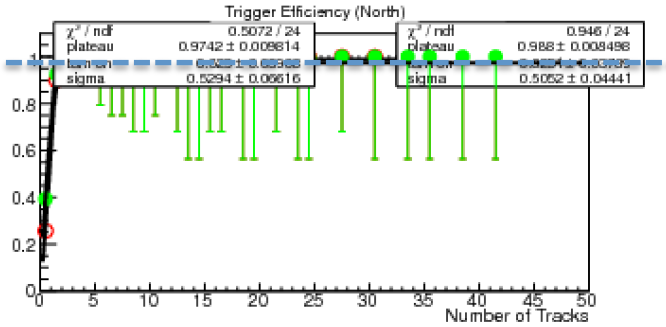
South Arm

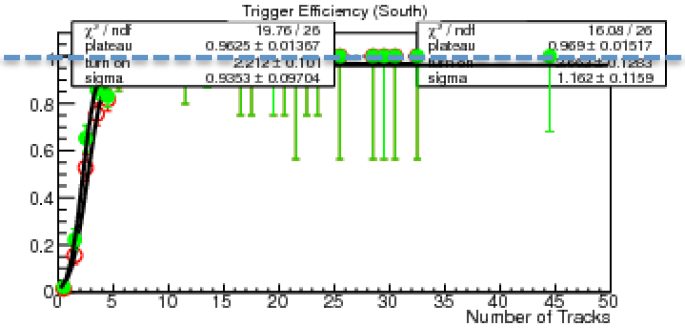












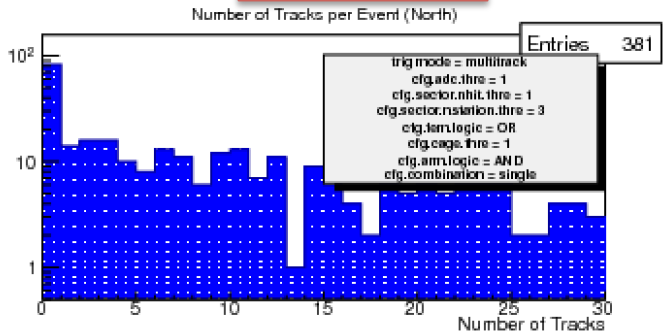
Efficiency turn on reaches 1 at # of track>5

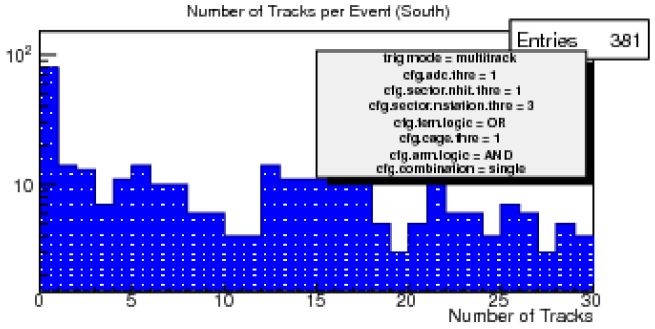
Both North and South arm shows > 90% matching efficiency between “predicted” and “actuary fired” events. FVTX trigger seems to be functioning correctly.

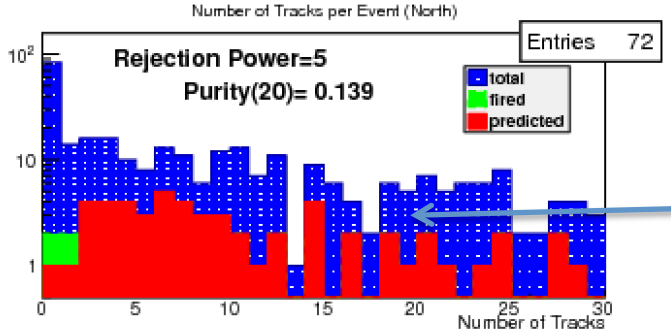
Run#456523 as of yesturday.

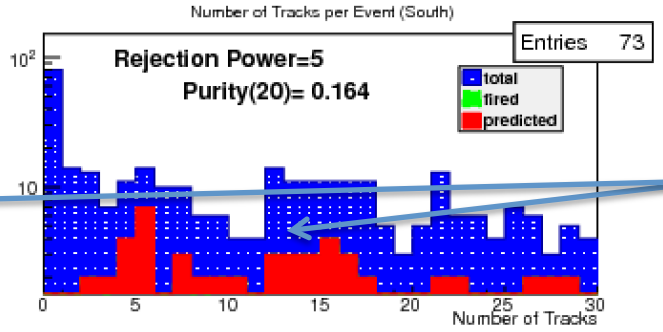
North Arm

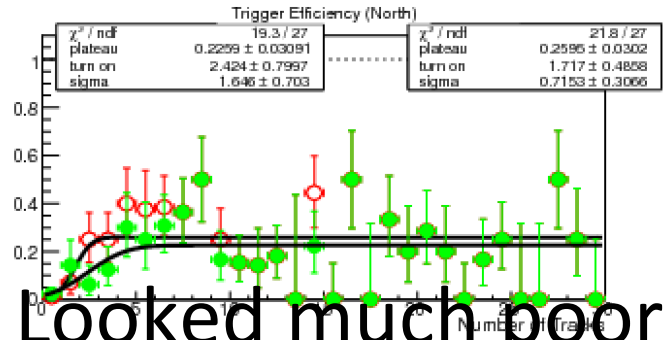
South Arm

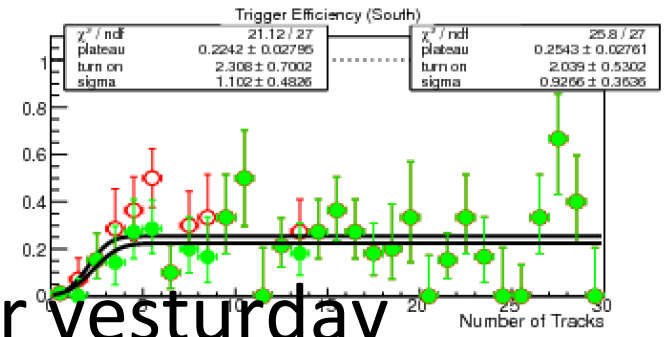












Fired events never reach BBCnoVTX spectrum even at high multiplicity

This doesn't sound right

Looked much poorer yesturday

Summary

- After BBC timing shift by 70ns this morning, the BBC vertex looks much better.
- FVTX number of hits/wedge/event also quenched to be less than 2 hits/wedge/event which is consistent with past runs. Perhaps online hists are filled by junk BBCnoVTX triggers yesterday.
- The FVTX trigger also looking in a good shape at the Emulator level.
  - Good “predicted” and “fired” matching
  - Trigger efficiency turn on as expected
- The reason things look better is that the performance is evaluated with respect to BBC MB trigger. Thus it looked poor yesterday because we referred to junk triggers.