Recocert for Reprocessing

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Introduction

- Recocert + Met_dq work together for data quality:
  - MET_dq: specifically for Missing E_T quality on a per-LBN basis (maintained by Patrice Verdier).
  - Recocert: generates plots for everything else.
- Root files result will be merged together for each run when running on farm.
- To run with MET_dq plots:
  - runRecoCert --mode=TMB_metdq --defname=…

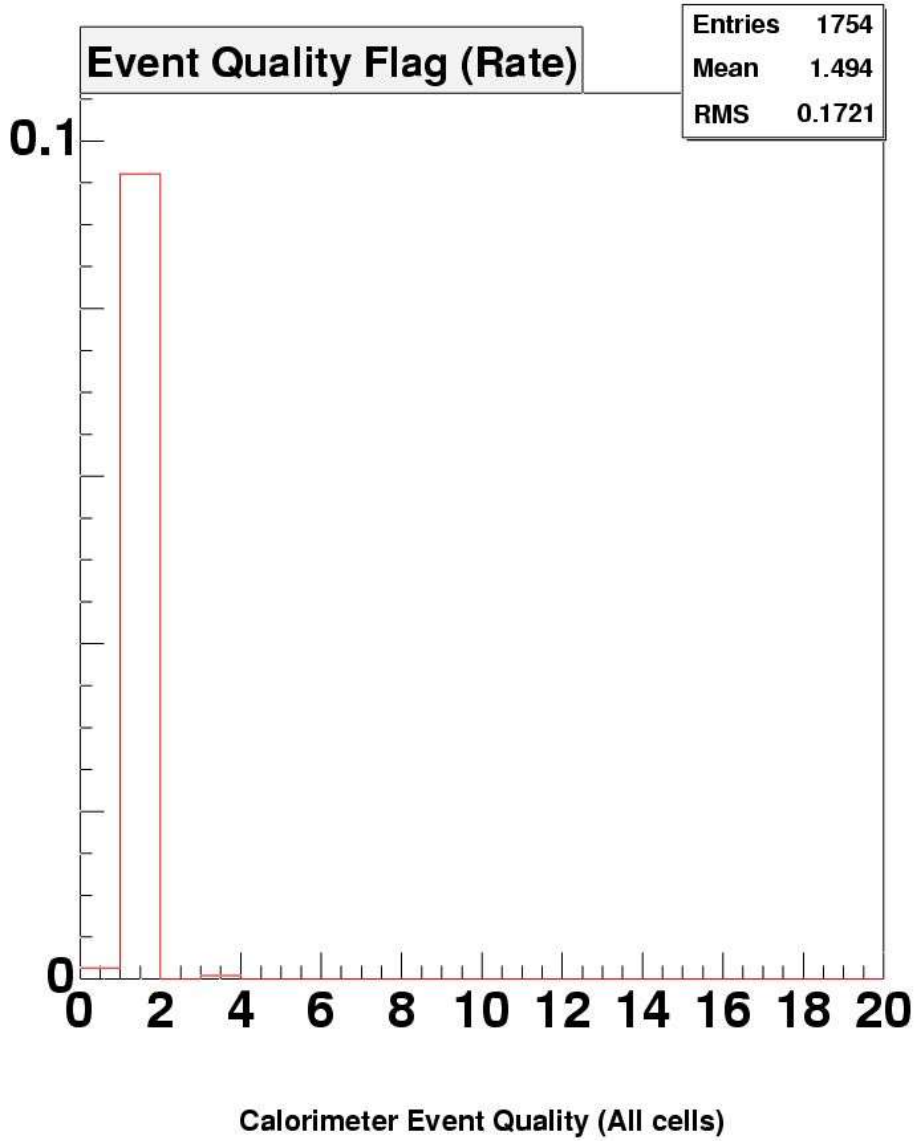
Fixed: Met_dq

- Discover a few more bugs since the freezing of the p17.03.01 (Thanks to Daniel from Reprocessing).
- Met_dq plots are NOT generated in p17.03.xx, since the latest version of met_dq is not in the most recent release.
  - Patrice have already submitted the release request, will be in p17.04.00
- Also recocert crashes in clued0 due to the un-initialized met_dq object.
  - Fix is already being put in and waiting for p17.04.00 approval

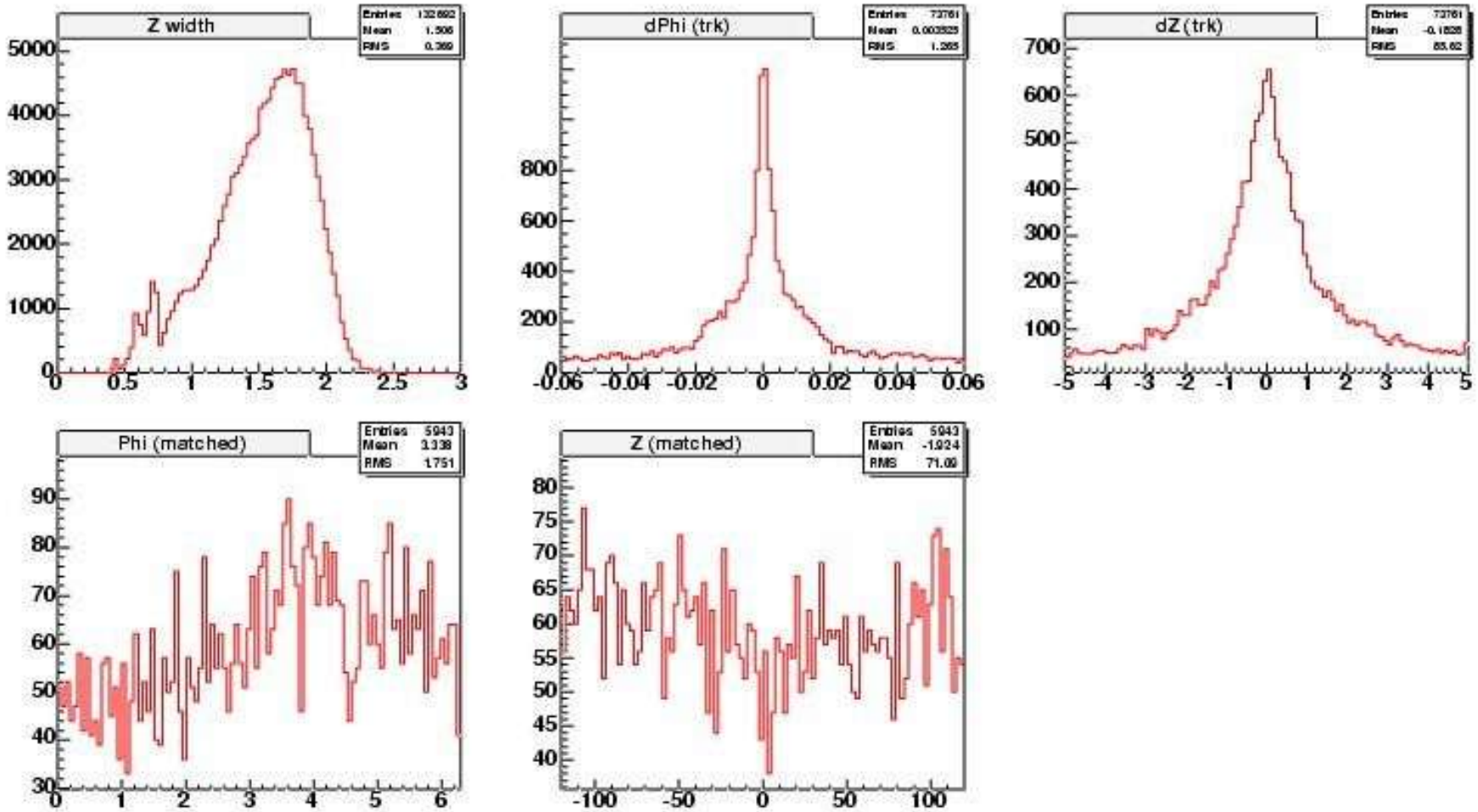
Fixed: Bugs in Merging

- Bug in merging hot/dead CFT plots – need to recompute rather than simply add.
- Bug in merging CAL event quality flags rate – Again need to recompute.
  - Already put in the fix and waiting for p17.04.00 approval.
- Should look for isolated tracks only when generate CPS track match plots.
  - Already put in the fix.

CAL Event Quality Event Plots (P. 26)

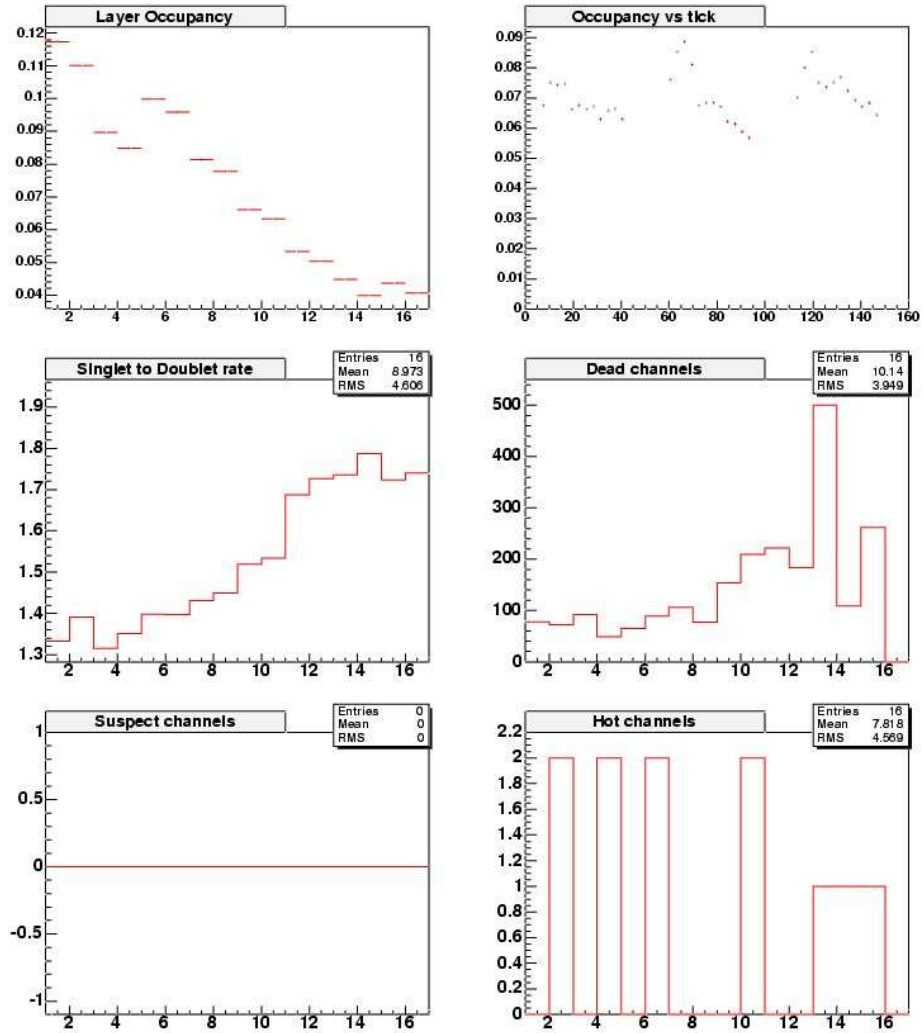


CPS track match plot (P. 28)



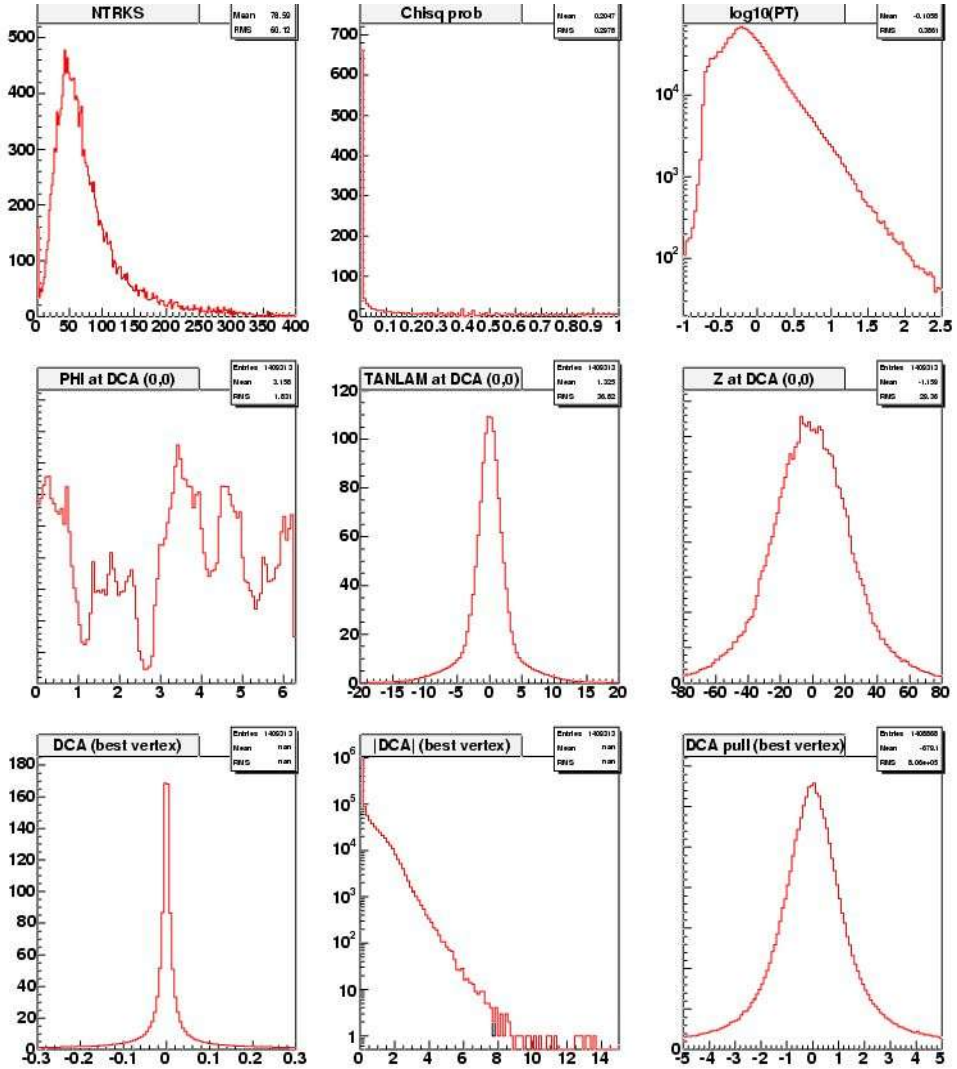
CPS Clusters (All Clusters)

CFT Hot/Dead Fibers Plot (P. 43)



CFT Summary (All Clusters)

Track Plots (P.1)



Tracks (All)

Summary

- Results shown are obtained by comparing the merged and unmerged TMB results from Joe.
- Most plots matched except the V0 plots (known feature) and a few high DCA bins in the track plot.
- To get the fixed version (or wait for p17.04.00):
  - addpkg recocert p17-br
  - addpkg –h recocert
- Also, not ready for the –fpe option, as the TMB L3 Chunk floating point error still exists.