



# **Preparatory work of MFT QC Operation**

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# Generate events

```
o2-sim -n 50000 -g pythia8 -m MFT --configKeyValues=Diamond.width[2]=6.;  
o2-sim-digitizer-workflow -b  
o2-mft-reco-workflow -b
```

- Generate 50 000 event with pythia 8 generator
- Convert generated level to reconstructed level
- Run reconstruction workflow — Get reconstructed track
- Got root files: mfttracks.root, mftclusters.root et. al.

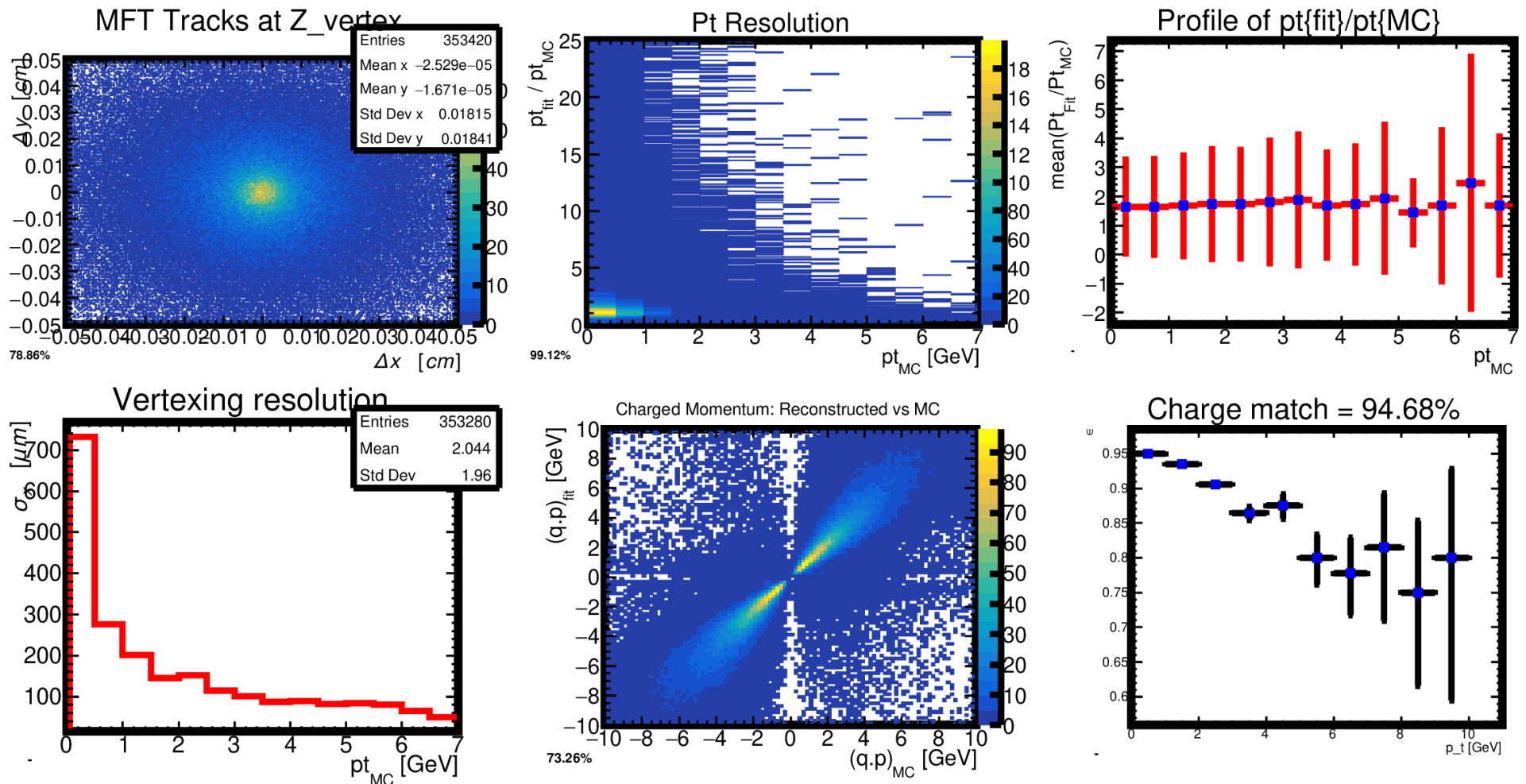


# Analysis generated events

- Run MFTFitterTrackerChecker.C analyze the generated event through loop each events and MFT tracks to get need plots

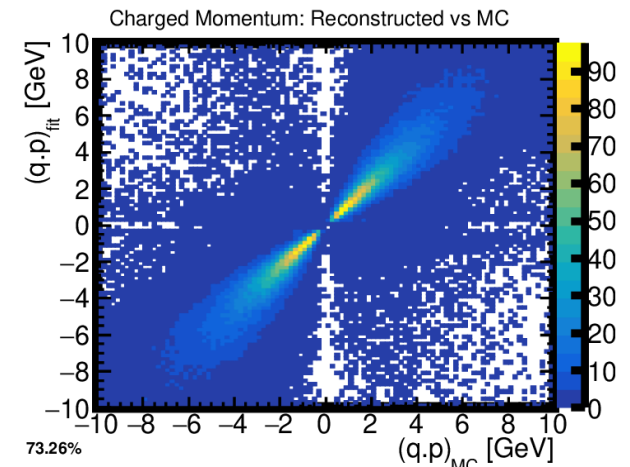
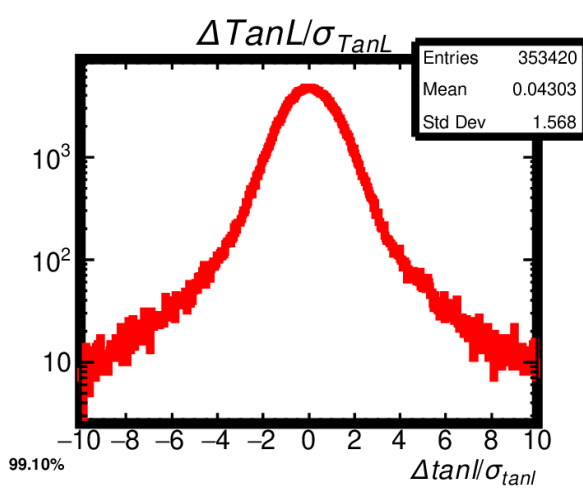
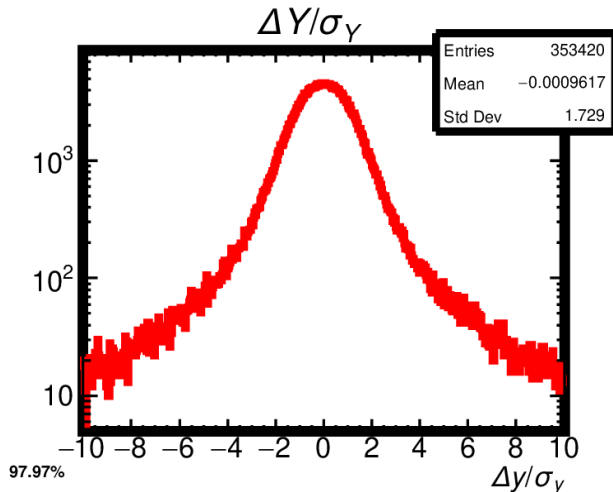
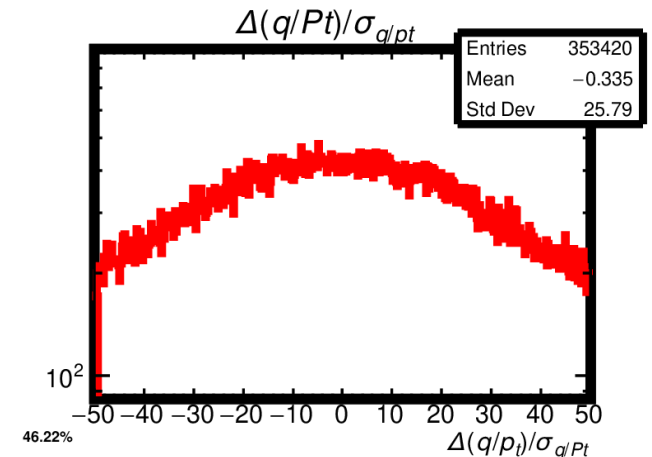
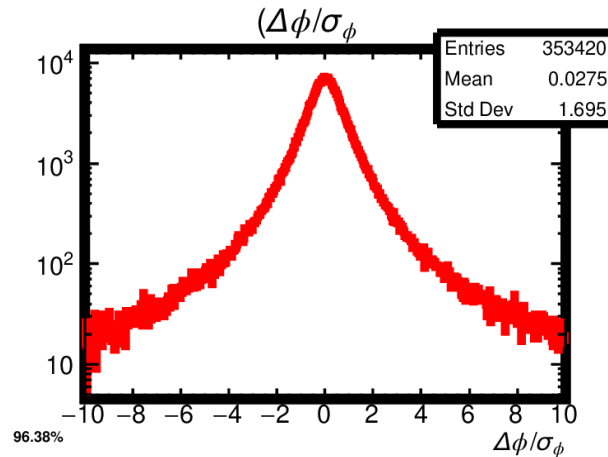
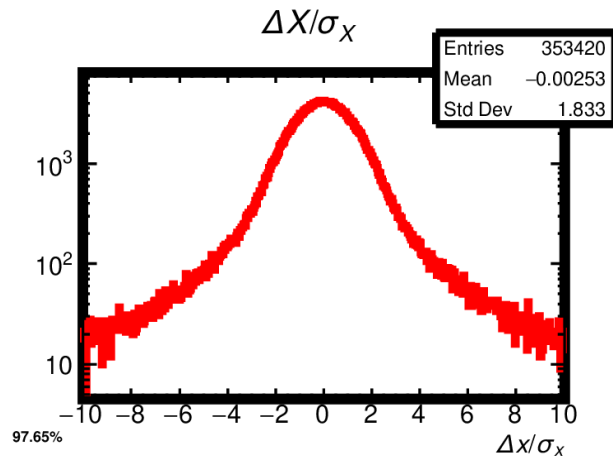
# Some of plots I got

- Parameters summary



# Some of plots I got

- Covariance summary



# Some of plots I got

- Vertex information

