07/11/2018

GIUSEPPE LERNER

IDEA TEST-BEAM MERGED NTUPLES

STATUS OF THE MERGING CODE

- In a previous meeting (<u>10th October</u>) I presented the detail of the DREAM-GEM merging code.
- The code produces synchronised ntuples with the information from both DAQ systems.
- The ADC counts of the DREAM DAQ are already associated to physical objects (*matching* procedure with 2018 config).
- Ideally, these ntuples should become the baseline input for all combined runs.

MERGED NTUPLES

- I produced merged ntuples for all the combined runs listed in the <u>twiki</u>.
- Caveat: the webpage where Nicola is collecting the data is missing a few GEM files. Some of them were in the storage folder of the dreamtest computer, but (GEM) runs number 171, 172 and 173 are still missing.
- The merged files are in an eos folder:

 /eos/atlas/user/g/glerner/IDEA_TB_merged

 accessible by members of the idea-testbeam-analysis list.

MERGED NTUPLES - LIST AND NEW FEATURES

Present list of merged files (to be moved to tier2 Bari?):

- Reminder: each file includes DWC-GEM correlation histograms to prove the synchronisation of the two DAQs.
- These histograms are now split in four sub-set of events (1st, 2nd, 3rd and 4th 'quarter' of file) to make sure that the correlation is not spoiled towards the 'end' of the files.
- ▶ See the 10th October talk for details on the file structure.