

Status of LCD dataset production v3

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What happened recently

- Dominick tuned the window selection in such a way that it generalises to generic angle
- He also discovers that the phi coordinate ID that we were using is reset at any change of module. So we were missing one coordinate
- He re-worked this out into a new version of the conversion flow
 - add new informations to the .txt files where we store the full calorimeter
 - use this new info in the txt -> h5 step, to provide proper coordinates for generic angles

New Production

- I picked up from there, to generate a new version of the datasets at fixed angle
 - the .root files are on eos
 - I removed the old .txt files and created new ones
 - I then merged them and then moved them to h5
- status
 - gamma and pi0 are done
 - missing 1 bunch of 10 files for ele (running the txt->h5 step. finishing as we speak)
 - missing 3 files for ch pions (root -> txt step running)
- jobs are completing and will hopefully be done soon
- I took the opportunity to regenerate the corrupted .root files (a handful) so that we have 80 files x 10K events/file EXACTLY

Variable Angle

- In parallel, I started to generate the variable-angle files
- This are going slow, due to the availability of the LSF batch system
 - Starting in parallel all particles
 - 100000 events/particle are there in txt format
 - 4K jobs pending, only 50 running
 - Will explore to which extent I could move to shorter queues (maybe 8nh is long enough?)
- Problem with LCD code coming soon (see next slide)

AFS phase-out at CERN

- CLIC people will soon remove all the ads code, since CERN is passing it out
- For some reason, “our” cvmsf built of CLIC depends on afs. They asked us to move away from it
 - run on the newest one
 - check that it gives similar results
- Doing so, I ran into problems with python import that I am trying to sort out with them
 - for the moment, they put the code back on afs as a temporary solution
 - on the long term, we will have to look for a solution. I am looking into that