## Experiment

Packages:   
ClbModules/ClbCherenkov.cc – use accsimpl calibration instead of accled (ag3n input):   
 dbAmp1peS = ClbDB::Vector<double>::subscribe(ntLED, "accsimpl", "amp1pe", status);  
 if ( (\*dbAmp1peS)[ (\*i)->n() - 1 ] ) {  
 c->setAmplitude((\*i)->amplitude()/(\*dbAmp1peS)[ (\*i)->n() - 1 ]);

In histtranslations or histcommon use "chr=OnlAG3n"

Also you want to work in the modern release (R00….), but pay attention to the modeling calibrations and other stuff – it has to exist for this release.

1. Get the list of experimental data files with stated directory, range of runs, scan (MHAD2019)
   1. Example can be found in /work/users/kladov/snd2k/R007-002/fwk/recflist\_my.fwi
   2. The list of all scans, runs and determined ranges can be found via comand recolist?
   3. Place this file in your fwk directory and include in fwk/recreco…
2. Make a job file for experiment processing
   1. Example is /work/users/kladov/snd2k/R007-002/fwk/recreco-col\_wfmcCalibrT.fwk
   2. Adjust it according to the guide for your release, located in .mainrelease/Offline/
3. Make hist file as it is included at the bottom of the job file
   1. Example is /work/users/kladov/snd2k/R007-002/fwk/histcommon\_colNCA.fwi
   2. You can define translations in the same file or add another and include it in the job file:

/work/users/kladov/snd2k/R007-002/fwk/histtranslationsA.fwi

1. Launch job like this (make file runreco.sh, chmod u+x runreco.sh and launch it with ./runreco.sh):

source /work/snd2000/root/setup2k.sh <linkage> (i386-SL5-opt-debug f.e.)

source /etc/sysconfig/gridengine\_nsu

.mainrelease/Offline/submit.sh -q clusters,360 -t 261-310 TAKE\_ALL\_RUNS=1 RecRootApp <job file>

## Modeling

You can do it after making a map from experimental data

You need special type of modeling data with conserved info about hits, so ask someone responsible for it (A. Berdugin) for these files with \*.mod.gz extension

You need to slightly change packages: SimFwk, ClbModules and SimMixFwk:

* Copy them from .mainrelease/ to your directory
* cp /work/users/kladov/snd2k/R007-002/SimFwk/SimAccCounter.cc SimFwk/SimAccCounter.cc (change a map file there to one in your “workdir/”+map.txt)
* cp /work/users/kladov/snd2k/R007-002/ClbModules/ClbInitSequence.cc ClbModules/ClbInitSequence.cc
* cp /work/users/kladov/snd2k/R007-002/ClbModules/ClbCherenkov.cc / .h ClbModules/ClbCherenkov.cc / .h. Here you need accled in ClbCherenkov

1. Make a job file for modeling processing and launching file
   1. Example is /work/users/kladov/snd2k/R007-002/fwk/simreco\_col\_point.fwk
   2. Launching file can be made with (20) – getlist() command in select\_ach script (need directory /online/simulation/…), example – runrecobase.sh in the same dir-ry
2. Make hist and translation files, directory as stated in launching file, make and launch
3. After processing, launch h2root command for all files, you can get the command to copy using getlist() command, but pay attention to the directory