

APEX online replay

- Git repo
<https://github.com/JeffersonLab/HallA-APEX-Online/tree/apex/replay>
- Local copy at /adaqfs/home/a-onl/apex/HallA-APEX-Online/replay
- Quick access with alias goapex – also this will set up variables for replay

APEX online replay

Proper Use

- Fork:
- Make a local copy in
/adaqfs/home/aonl/apex_work/user/
 - Git clone “your fork”
- Set up your git configurations and remote paths, since this is a shared user system
 - Git config –local user.name “name”
 - Git config –local user.email “[email@email.com](#)”
 - Git remote add upstream
<https://github.com/JeffersonLab/HallA-APEX-Online.git>

Working in your repo

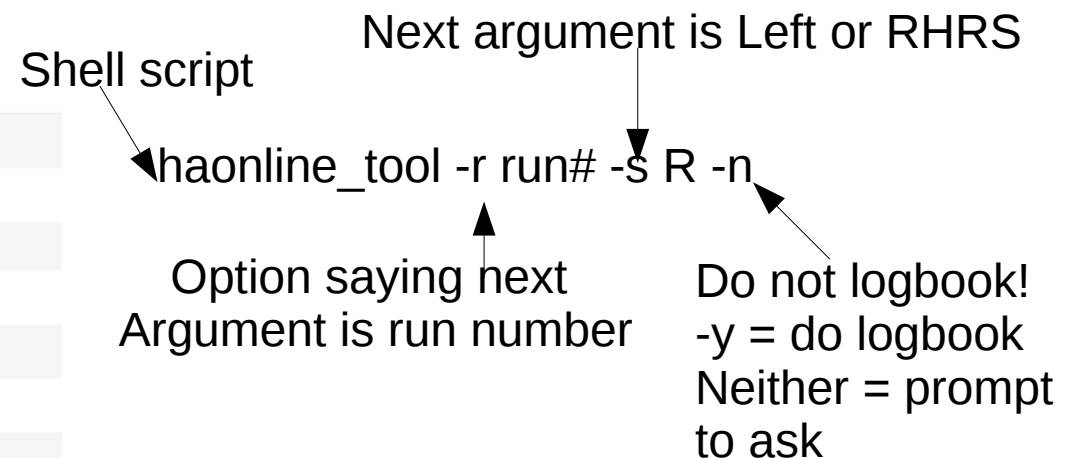
- Work is currently being done in the apex branch
- Bring the remote branches to the local repo
 - Git fetch upstream
- Make a new local branch from the remote branch
 - git checkout -b apex remotes/upstream/apex
- Need to compile libraries, online gui, and replaycore
 - In libraries dir. run sh libs.sh
 - In onlineGUI64 dir, run make
 - In replay, run the analyzer then in the analyzer session run .L ReplayCore64.C++
- **Important!!!**
 - **Commit often and push those commits**
 - **Merge the the upstream repo often, to prevent merge conflicts!!!!**
 - Do not save personal root files on home
 - Save them on /chafs1/work1/apex --this is the location of the official replayed root files
 - Or /chafs2/work1/APEX – great place for personal root/data files

Online scripts

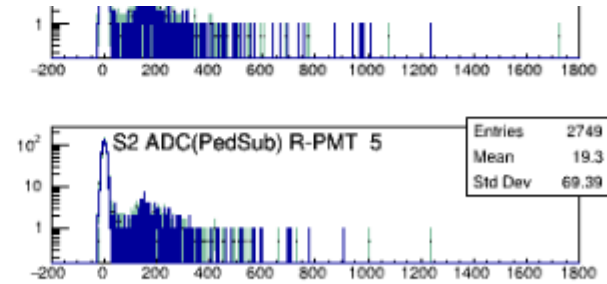
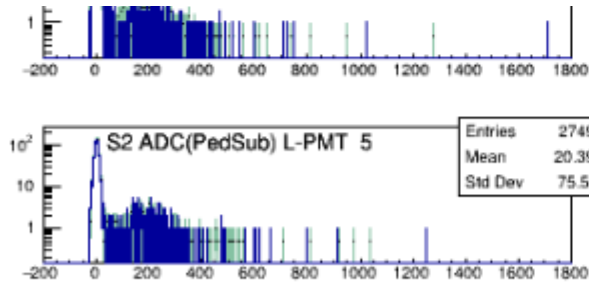
- OnlineReplay run# -s R/L
 - Will run the replay script to make the root file
- OnlinePlots run#
 - Will open up online gui for comparing the run# to the “golden run”
- haonline_tool, many arguments you can run without any to get a help statement
 - Used for run period online replays, to post to logbook
 - Can use myAnalysis to run haonline_tool for pre-selected arguments
- Golden_run run#
 - Will update the golden run link for comparison plots.

DAY Monday (14-Jan-2019)

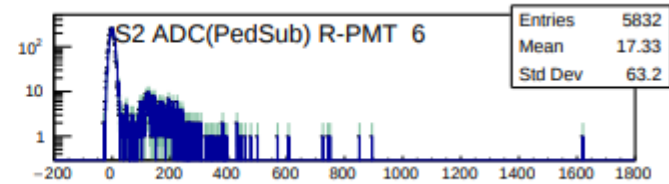
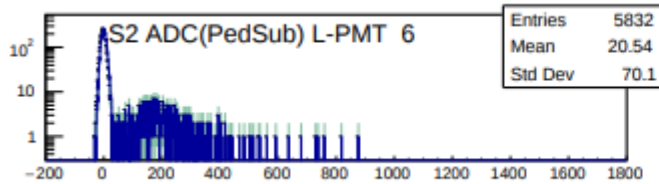
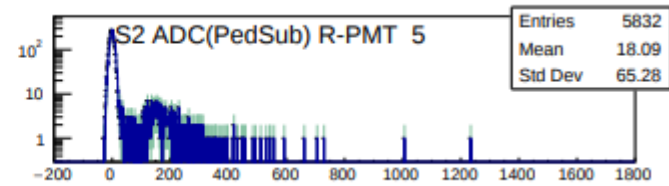
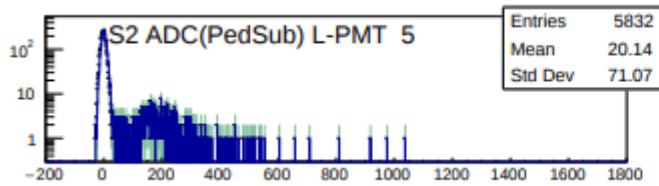
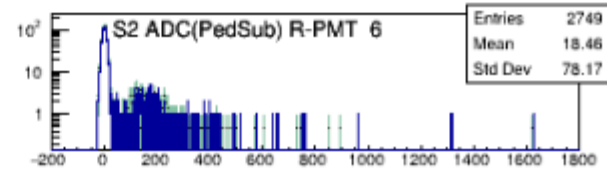
Lognumber	Date	Author	Title
3642549	10:33	a-onl	Run 111950 Online plots for Right HRS
3642548	10:31	a-onl	Run 111950 Online plots for Right HRS
3642547	10:31	camsonne	Adjusted RHRS latency to 70
3642546	10:25	a-onl	Run 111950 Online plots for Right HRS
3642544	10:19	a-onl	Run 111949 Online plots for Right HRS
3642543	10:17	a-onl	Run 111949 Online plots for Right HRS
3642541	10:17	a-onl	Run 111949 Online plots for Right HRS
3642540	10:15	a-onl	Run 111949 Online plots for Right HRS



Issue with RHRS s2 Left pmt 6



Rs2la_p6 not found



Things to work on:

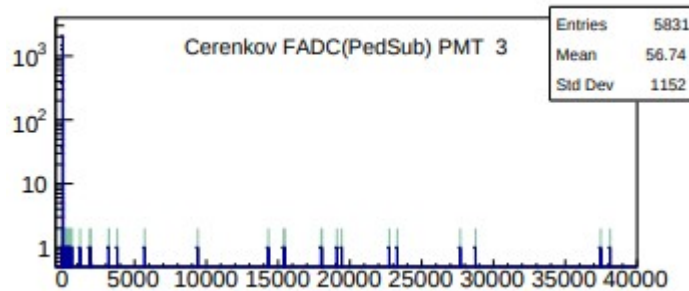
- Logbook post for start and end of runs:

- HV information
- Trigger naming for Prescale gui
 - Logbook scripts

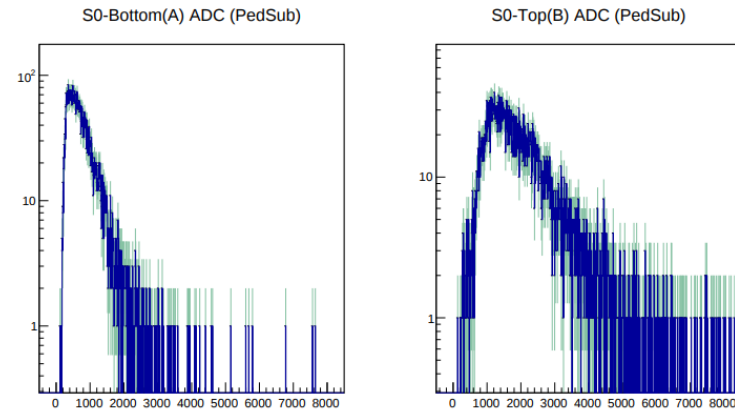
```
RHRS Detector High Voltage and Current
A1
1L 2L 3L 4L 5L 6L 7L 8L 9L 10L 11L 12L
Set HV (V) 129.57.164.227_2.jnlp 2.6.2 5.5 abc abu agen alarms alex ARS autoanalyzer %backup%~ bbite beamCurrent.tmp.txt beat1 be

C RHRS_s2m 2 16 1 1
C SciFi 1 6 1 1
C RHRS_sh 5 15 1 1
C RHRS_s0 1 2 1 1
C RHRS_VDC 1 2 1 1
C RHRS_gc 2 5 1 1
RHRS_ps 2 24 1 1
```

- SQL DB, Edit current Start and end of run scripts



Correct range for
Cerenkov plots



- S0 pedestals