CREX replay github repository

Hanjie Liu 12/03/2020

Github link: https://github.com/JeffersonLab/crex-optics-replay
farm path: /w/halla-scifs17exp/parity/disk1/crex_optics/

1. clean up the replay script with only ParityData lib included: setup.C
2. clean up unused variables and plots defined in outputDef
3. add multiple db_P.dat maps for all the cable changes during CREX

```
20190901
20200322
20200807
20200813
```

```
db_LeftBCMev.dat
db_LeftScalevt.dat
db_L.fpp.dat
db_L.gem.dat
```

```
db_R.fpp.dat
db_RGEM.rgems.dat
db_RightBCM.dat
db_RightBCMev.dat
```

```
--------[ 2019-12-12 07:23:29 ]
# parameters from EPICS run 21696
ebeam = 2.18272
R.theta = -4.762
R.pcentral = 2.18844
--------[ 2019-12-12 07:26:01 ]
# parameters from EPICS run 2631
ebeam = 2.18248
L.theta = 4.78
L.pcentral = 2.18281
--------[ 2019-12-12 08:02:59 ]
# parameters from EPICS run 2634
ebeam = 2.18258
L.theta = 4.78
L.pcentral = 2.18281
--------[ 2019-12-12 08:03:03 ]
# parameters from EPICS run 21699
ebeam = 2.18263
R.theta = -4.762
R.pcentral = 2.18843
```

4. make db_run.dat have the information for every run using the start run log:
"/adaqfs/home/adaq/epics/runfiles_tritium_L(R)/Start_of_Run_%d.epics"
ebeam = Tiefenbach 6GeV Beam energy (MeV) *1.003
angle = 4.78 (LHRS), -4.762 (RHRS)
pcentral =
   - RHRS: 2.702*Right_Arm_D1_NMR-1.6e-03*pow(Right_Arm_D1_NMR,3);
   - LHRS: Hall A Probe*0.95282/0.33930
5. fix the analyzer version: crex_optics/analyzer-1.6.6
6. generate runlists for each target based on the "Alignment runs" in https://docs.google.com/spreadsheets/d/1SngpqgLLULtcuKD0t9k-A2Cpmxy1jb5bIYnnP8f8zPM/edit#gid=1910123414
7. farm job submit scripts: replay/submit_run.py
8. replayed all the runs and saved at /lustre19/expphy/volatile/halla/parity/crex_optics_rootfile

Please run your analysis scripts and see if there is any issue with the root files.
Feel free to push modifications and changes to the GitHub repo