# General Updates for May 2023 Train

Sakib Rahman 8 June 2023

#### Conductor's Log Book

- Created account on Open Science Grid and subscribed to EIC project
- Connected to osg login node login.collab.ci-connect.net
- Cloned <a href="https://github.com/eic/job\_submission\_condor">https://github.com/eic/job\_submission\_condor</a>
- Within the job submission folder the following script is executed for each dataset provided in the form of csv files



- Jobs when submitted goes into idle queue before running. Failed jobs go into hold queue. Use hold\_review\_and\_release.sh to monitor reasons for common job failures and resubmit. To release all jobs on hold at once use condor release <username>
- epic\_brycecanyon is the default detector config starting in June. Additional configs need to be requested.

#### Conductor's Log Book

- To view the output from the campaign in the S3 storage:
  - Install minio client curl https://dl.min.io/client/mc/release/linux-amd64/mc --create-dirs -o ~/bin/mc
  - Do this ONCE: ~/bin/mc config host add S3 https://eics3.sdcc.bnl.gov:9000 eicS3read eicS3read
  - Then you can use ~/bin/mc Is S3/eictest/EPIC or ./mc tree S3/eictest/EPIC to view content
  - Xrootd mirroring to jlab started. Location: /work/eic2/EPIC
- For the majority of the jobs we only store RECO output. For a small number of datasets, we are storing FULL sim results (roughly 10000 events). So, far we have been submitting duplicate jobs with a modified template that stores full sim output. Deprioritize using condor\_prio command after first 200 jobs in the array are queued in RUN status. Then kill the jobs when the RUN jobs reach DONE status.
- Analyze process monitor logs (<a href="https://github.com/HSF/prmon">https://github.com/HSF/prmon</a>) to understand variation in resource usage between campaigns
- Web summary page under construction
- <u>Documentation under construction</u>

```
Reco output should be available
for epic brycecanyon for the
following on
S3/eictest/EPIC/RECO/23.05.2
DIS (pythia8):
  NC
  CC
EXCLUSIVE:
   DEMP
  DVCS ABCONV
  TCS ABCOV
SIDIS (pythia6):
  Noradcor
Backgrounds:
  Beamgas+Synrad (10k
events)
```

### Results from 23.05.02

```
xl+> rahmans1@login:~$ ~/bin/mc tree S3/eictest/EPIC/FULL/23.05.2
S3/eictest/EPIC/FULL/23.05.2
   epic arches
   — DIS
            10x100
              min02=10
              min02=100
              min02=100
             - min02=10
               min02=100
  epic brycecanyon
   L DIS
            10x100
              min02=10
               min02=100
              min02=10
               min02=100
              minQ2=10
```

Only ran DIS NC for epic\_arches

## **Outstanding Tasks**

- 1) Create list of default datasets
- 2) Create input preprocessing policy (PR under discussion https://github.com/eic/epic-prod/pull/12)
- 3) Xrootd and S3 mirroring work in progress
  - We are planning to start testing writing to xrootd directly