

Minutes from the RG1a NPS analysis of July 3, 2024

Meeting Recording:

https://jlab-org.zoomgov.com/rec/share/Npd4ZGnny4jtsjePMIFA2CICNGFsLv98lfIRbi4AHC-_uoVkvPHJ9G3_wrxEwcXi.rr6SOGJD9rglbizt

Josh (<https://hallcweb.jlab.org/elogs/NPS-RG1a-Analysis/2>)

=====

- Presented the status of the run list.
- Basic identifiers for good/bad criteria were discussed. They are currently obtained from automatic scripts (do not rely on manual logging).
- Discussed Peter's run list, which primarily uses scaler data as criteria, but not only.
- Discussion on formatting of the list and possible addition of extra columns to the file (discussion to be continued).

Avnish (<https://hallcweb.jlab.org/elogs/NPS-RG1a-Analysis/3>)

=====

- Presented status of the HMS DC calibration
- Discussion on what other detectors should be calibrated first (C. Yero's technical note or thesis are a good reference as a starting point: see, e.g., https://hallcweb.jlab.org/DocDB/0010/001032/001/analysis_notes.pdf).
- Once other detectors and time cuts are optimized, this will be redone.
- Calibration will need to be done several times during the run period.

Yaopeng (slides at eb.jlab.org/elogs/NPS-RG1a-Analysis/4)

=====

- Presented also DC calibration results.
- The same main conclusions apply (see Avnish's talk).

Casey

=====

- Discussed how to use hcana in ifarm using a common software version for everyone.
- He will post instructions in the wiki.

Hao (<https://hallcweb.jlab.org/elogs/NPS-RG1a-Analysis/5>)

=====

- Presented the status of the pi0 calibration.
- A few minor issues are still under analysis.
- The required frequency of calibrations will be investigated.
- The focus now is on developing the procedure; calibrations will need to be redone once waveform analysis on calorimeter data is performed.

Wassim (<https://hallcweb.jlab.org/elogs/NPS-RG1a-Analysis/8>)

=====

- Presented the status of the pi0 and DVCS missing mass distributions after waveform analysis.
- Normalized LD2-LH2 distributions are presented.
- The (LD2-LH2) DVCS missing mass distribution shows a higher number of events than LH2 alone, which would be surprising if real — probably related to the LH2 target density issue.

The next meeting will be on Thursday, July 11 at 4PM ET: