

## Minutes from the RG1a NPS analysis of July 24, 2024, 8 am EDT

### Meeting Recording:

[https://jlab-org.zoomgov.com/rec/share/vWSVlr2Mpqz-V-mHp0gXQ5PWIHNM2GVXZ\\_FZOVMIHI4S70iPI5O5IkgD7wLp0IXW.QhhjSn6yZ2EWzJD1](https://jlab-org.zoomgov.com/rec/share/vWSVlr2Mpqz-V-mHp0gXQ5PWIHNM2GVXZ_FZOVMIHI4S70iPI5O5IkgD7wLp0IXW.QhhjSn6yZ2EWzJD1)

Passcode: ask Julie

I only started the recording 5 minutes into the meeting: sorry.

### Attending:

R. Michaels, A. Singh, C. Munoz, C. Morean, C. Ghosh, E. Kinney, H. Mkrtchyan, H. Huang, J. Crafts, M. Mazouz, M. Mathison, M. Kerver, R. Song, V. Tadevosyan, W. Hamdi, Y. Zhang, J. Roche.

### B. Michaels: Update on Scaler Problem

- Slides: <https://userweb.jlab.org/~rom/Scalers1.pdf>
  - Byproducts of the upgrade to CODA 3.10 and my misunderstanding. It affected NPS only. And now it's fixed.
  - In the Fall run, this affected about ~5% with two different causes
  - The hypothesis is that Helicity scalers are not affected. Bob is close to proving this right; they need a few more weeks of work.
  - Bob showed examples of good and bad runs with respect to this problem
  - Comparing the helicity scaler reading to the "regular" scaler helps identify runs with bad regular scalers.
  - Bob showed a list a remaining TO-DO list (last list)
- Open questions: does the helicity scaler report the EDTMs? Yaopeng and Bob will look into that.

### Y. Zhang: Timing Windows check

- starts 24 min in the recording
- Slides: <https://hallcweb.jlab.org/elogs/NPS-RG1a-Analysis/17>
- The Cerenkov and the calorimeter show double peaks, which is surprising. Casey suggests investigating the multiplicity and possibly the trigger type.
- Charles and Casey suggest enlarging the good timing windows to make sure not to lose any events.

### A. Singh: Check on the hodoscope calibration

- starts 43 minutes in the recording
- No slides
- showed beta values extracted from all runs from online replays of the mean of the histograms. Looks good.

- Will refine with fit and PID cuts

**M. Kerver: PID calibrations**

- starts 52 min in the recording
- no slides
- worked on his swift script for calibrations and ran it on half of the data
- might have to rerun the calibration with widened timing cuts (see Yaopeng's presentations)

Our next meeting will be on Thursday, August 1 at 4 pm EDT.