JLab (internal) SciComp Review 2024

- **Review is Feb 1, 2, 2024**
  - → https://indico.jlab.org/event/728/
    [Access Key: "JLAB2024"]
  - → Charge + details emailed today
  - → *We're asking for an updated "pre-review" handout to be uploaded by Jan 26*
    - » See upcoming slide for details
- Follows historical pattern:
  - → Dec 2021 Review Indico
    [Access Key: "JLAB2021"]
  - → Review Report, Responses, and pre-review handouts are there

- Requesting updates on
  - → Scientific Computing Systems
    - » incl. OSG/NERSC usage/plans
  - → EPSCI Report
  - → Hall Reports/Projections
    - » GEp/V, MOLLER special topics
  - → Theory Report/Projections

- Special topics
  - » New LDRDs highlighted + updates
  - → SRO status and plans
  - → AI/ML Updates

Reviewer Charge for NP Division (2024)

For the Experimental Nuclear Physics (ENP) Division, offline software, detector simulation and analysis, for Halls A-D please:

1) Assess each halls' approach to software systems. Are there any bottlenecks in calibration, data production or user analysis that need to be addressed?
2) Comment on the plans and progress by some of the halls to evolve their approaches to data collection through the deployment of streaming readout and/or higher-level triggers, and possible synergy with EIC.
3) Comment on planning for computing and storage estimates. Are they consistent with the CEBAF schedule and publication timelines? Are they consistent with the streaming readout, level 3 triggering and distributed computing approach foreseen in Halls A-D, including Moller?
4) Comment on opportunities that may exist for common tools and approaches with the broader HEP/NP community that can be utilized by Jefferson Lab?
5) Did ENP/Experimental Halls respond appropriately to the recommendations of the last review?

JLab SciComp Pre-Review Handout Notes

- Following 2021 example, we'd like a short (<5 page) pre-review document
  - → Please upload ~7 days prior to the meeting (Friday, Jan 26 would be fine)
- Template / Sections
  - → Overview of Hall / Experimental approach (keep this short and sweet)
  - → Simulation requirements / plans
  - → Triggering and Online Analysis Plans/Approach
    - » Updates on SRO progress or plans (as applicable)
  - → Analysis Workflow(s)
    - » Core software / frameworks you plan to use
    - » Outline reconstruction process including calibrations
  - → Summary of computing requirements (CPU, Disk, Tape, Network) for next 5 years
    - » Should be similar to projections you provided in summer 2023.
      - – Summarize and call-out any changes/updates
    - » Include off-site computing plans