**Jefferson Lab 12-GeV Experimental Computing Review**

**November 27-28, 2018**

**L102/104 CEBAF Center**

**Agenda**

**Tuesday, November 27**

8:00 – 8:45 Executive Session – also includes few slides on where we are with 12-GeV

8:45 – 9:00 Introduction – General JLab Computing and Experimental Software Structure (to introduce reviewers to mode of operations at JLab) Amber Boehnlein

9:00 – 9:30 Halls A and C Overview and Progress Ole Hansen / Mark Jones

(include what the detectors are, the schedule for the next five years, software experience from first 12-GeV experiments, path to publication,

high-level overview and tracking versus recommendations/milestones,

estimates of Computing and Storage Requirements for 5 years)

9:30 – 10:00 SBS Software and Computing Seamus Riordan (ANL)? (include status of GEM tracking/reconstruction software & validation)

10:00 – 10:15 Break

10:15 – 10:45 GlueX/Hall D Overview and Progress: A Blueprint for Physics

Curtis Meyer / David Lawrence

(include what the detectors are, the schedule for the next five years, computing/software experience so far, lessons learned, prospects for high-intensity run, tracking versus recommendations/milestones, efforts and planning for off-site computing, estimates of on-site Computing and Storage Requirements for 5 years)

10:45 – 11:15 CLAS12/Hall B Overview and Progress Stepan Stepanyan?

(include what the detectors are, the schedule for the next five years, software experience from first 12-GeV experiments, path to publication, high-level overview and tracking versus recommendations/milestones, efforts and planning for off-site computing, estimates of on-site Computing and Storage Requirements for 5 years)

11:15 – 12:15 CLAS12 Software and Computing Deep Dive Raffaella De Vita / G. Heyes (maybe split in 2 talks? Talk about CLARA software status, gaps, items to complete, changes made in computing requirements, software,

organization since last review, recent successes, etc.)

12:15 – 12:45 Experimental Computing Overview Graham Heyes

(roll-up of requirements and facility planning, roll-up of off-site planning assumptions, DOE/NP report)

12:45 – 2:00 Working Lunch (Executive session)

2:00 – 2:30 Scientific Computing and Scope at Jefferson Lab Chip Watson

(overview of current resources, and the process by which we arrived at this point including optimizing for science (compute, storage and bandwidth, memory, networking), ongoing evolution of the computing environment to support swings in demand and to integrate available ("free") external resources, near-term (FY2019) evolution (cloud, increasing offsite resources), including expected changes in computer architecture (component) and how we choose likely future winners)

2:30 – 3:00 Scientific Computing Implementation Sandy Philpott

(Current capacity (compared to requirements) and FY2019 likely purchases to respond to requirements, Operations (everything that serves the users: queues, allocations, fair share, trouble tickets), overview of work flow tools: Auger, Jasmine, SWIF (present and FY2019 evolution), management (decision making) and software support (Physics div. "volunteers"))

3:00 – 4:30 Outlook and Gaps for Future Nuclear Physics Program

(3 talks, 30 minutes each, <50% presentation)

1. Gaps for Possible Future Experimental Program Steve Wood?

(include GEANT4 needs, TDIS/streaming, MOLLER, SoLID, etc.)

1. Gaps for Possible Future Scientific Computing Chip Watson

(include planning for 24/7 computing support, plans/hurdles for advanced scientific computing in out-years)

1. Gaps for Possible Future Phenomenology Nobuo Sato/Jianwei Qiu?

(include state-of-the-art global fit/phenomenology, further software

development needed for radiative corrections & 3D global fits, needs)

4:30 – 4:45 Break

4:45 – 6:30 Executive session

6:30 – 6:45 Questions

7:00 – 9:00 Reception

**Wednesday, November 28**

8:00 – 10:00 Q&A

10:00 – 12:00 Executive session – prepare draft

1:00 – 1:30 Close Out