

Call for Scheduling requests

To : Spokespersons of Approved Jefferson Lab Experiments
Cc : Jefferson Lab Users Group
From : Nuclear Physics Experiment Scheduling Committee
Subject: Beam Time Requests for January 2018 thru December 2019
Link : http://www.jlab.org/exp_prog/experiments/scheduling.html

Since the last call for scheduling requests was issued July 2016, several noteworthy events have taken place. The DVCS experiment in Hall A completed 50% of the 100 days allocated by the PAC while the G_M^p experiment was executed to completion (24 PAC days) in parallel with DVCS. The ^{40}Ar Spectral Function experiment (9 PAC days) followed. In Hall B, the Torus magnet reached its design current in November and Hall B demonstrated to DOE satisfaction its Key Performance Parameter (KPP) in February. Shortly after, Hall C completed commissioning to design current of the last of the Super-High Momentum spectrometer (SHMS) magnets. Hall C went on then to also demonstrate to DOE satisfaction its KPP. Having completed their Engineering Run previously, Hall D moved into the first physics run of GlueX, the so-called “low luminosity” run. It has acquired about 20 PAC days of the 90 approved for this run.

While there were many accomplishments, there were also several hardships. A design flaw in one of the newly acquired arc magnet power supplies prevented running Hall D for a major fraction of Fall 2016. The affected supplies have been retrofitted with the manufacturer provided solution. A failure of one of the cold-compressors forced an early termination of the Spring 2017 program. The failure was traced to a broken wire, maybe due to suspect workmanship when the compressor was built over 20 years ago. Repairs are in progress.

Having demonstrated the Halls B and C KPPs, we are ready to transition from “opportunistic” to regular research in all halls. Following the budget guidance given to the lab, we plan to operate for about 10 weeks of beam time this Fall 2017, and also plan to operate all four Halls simultaneously in part of this period. Unfortunately, the remaining of FY18 is uncertain at this moment. To be able to plan into the future, this call for Scheduling Requests covers experiments that could be run within the next twenty-four months, counted from January 2018, although given the present budget uncertainties, coming beam schedules may present shorter time spans.

The requirements to be met before scheduling can be requested are given in subsection V of http://www.jlab.org/user_resources/PFX/NP-PFX/text.html. In short, you can only request scheduling when construction of all major components of the experiment are (near-)completed, as at this stage the experiment layout and components are considered frozen, and any design modifications will require a change control, approved by the Division Management. Experiment spokespersons should also note that robust and reliable multi-Hall beam operations are still subject to commissioning periods, so routine beam properties still have to be established. Please discuss with your Hall Leader if there are specific questions.

Under this condition, experiment collaborations requesting beam time and capable of being scheduled within a period of 24 months starting January 2018, must deliver their requests to the Jefferson Lab User Liaison Office by close of business MONDAY, JULY 31. These requests will be reviewed by the Hall

leader and then by the Nuclear Physics Experiment Scheduling (NPES) committee, which prepares the combined accelerator and experiment schedule. See http://www.jlab.org/exp_prog/experiments/NPEScommittee.html for the composition of the NPES committee.

REQUEST INSTRUCTIONS

Beam Request Forms: There is a specific set of forms to be completed electronically. They can be found at http://www.jlab.org/exp_prog/experiments/beam_req.html

One-Page Summary: A one-page summary of your experiment is **required** to accompany your beam time request. The summary should provide a broad overview of the experiment and the questions it is addressing aimed at a general science audience rather than a nuclear physicist. This request is similar as was done for the 6-GeV operations era, and a list of one-page summaries for earlier Jefferson Lab experiments can be found online at http://www.jlab.org/exp_prog/experiments/summaries/.

Hall Leader Concurrence: All beam time requests and one-page summaries need to be approved by the Hall leader. The routing process is automatic but please make sure the Hall Leader is aware before hand of your particular requirements, specially if extensive testing and/or installation is involved. If you have any questions concerning this point, please contact the corresponding Hall Leader,

Halls A & C, Cynthia Keppel (keppel@jlab.org, 757-269-7580)

Hall B, Volker Burkert (burkert@jlab.org, 757-269-7540)

Hall D, Eugene Chudakov (gen@jlab.org, 757-269-6959)

If you do not receive a confirmation upon submission, please email: users@jlab.org. Additionally, you should expect a confirmation when your request has been fully approved. Thank you for taking time to help ensure an optimal process for scheduling experiments at Jefferson Lab. The scheduling is of great importance to the Laboratory User community and the Laboratory and we appreciate your endeavors. If you have any questions or comments, please send them to users@jlab.org