

PAC42 will be held during the week of July 28, 2014 and will continue the call for new nuclear physics proposals. The PAC will judge the technical and scientific aspects of submitted proposals and provide recommendations to Laboratory management. New proposals will be recommended for approval only if they represent high quality physics within the range of scientific importance represented by the previously approved 12 GeV proposals. ***The deadline for submission of proposals and updates is 8:00 a.m. EDT (Eastern Daylight Time) on Monday, June 2, 2014. Proposals submitted after the deadline will NOT be accepted.***

Proposals and updates for PAC42 should be submitted electronically using the instructions at http://www.jlab.org/exp_prog/PACpage/instructions.html

New Proposals

Detailed information on the process for proposal submission is available at http://www.jlab.org/exp_prog/PACpage/guidelines.html. New proposals will be granted a 20 minute presentation in a public session at the PAC meeting. Following the public presentation session the PAC will continue its discussions in closed session, and at least one spokesperson should be available either in person or by phone for 24 hours after the public session to answer questions as the PAC's discussion progresses. Proposals will, if approved, be given a scientific rating and a beamtime allocation. Newly approved stage II proposals will also be considered for “High Impact” status for scheduling priority, as per PAC41.

As we started with PAC40, the Hall B collaboration should submit proposals for complete run groups at one PAC meeting, where all of the anticipated physics associated with the proposed run group will be considered. Each run group can submit up to 4 individual proposals (up to 3 physics topics plus 1 summary of additional topics) and will be granted a maximum of 4 presentations corresponding to these proposals. The PAC may consider each of these for grading, but will attempt to provide a common assessment of the whole run group. New experimental proposals that run in parallel with previously approved run groups should be considered internally by the CLAS12 collaboration. A CLAS12 representative will have the opportunity to report on these to the PAC, and the PAC will then provide comments on them in its report. Proposed parallel running in other halls should be handled in a similar fashion.

Conditionally Approved Proposals

The PAC may conditionally approve proposals when additional requirements must be fulfilled before full approval is granted. There are two categories of conditional approval:

- C2 - must return to the PAC to address concerns or issues to obtain approval,
- C1 - must meet designated technical requirements to obtain approval from laboratory management - further PAC review is not required.

The rule for newly conditionally approved 12 GeV proposals is that they must return for approval at one of the next 2 consecutive PAC meetings following the PAC at which they received the conditional approval status.

Proposals that received C2 status at a previous PAC may return to PAC42 to be considered for approval. Proposals with previous conditional approval (C2) that wish to be considered for approval at PAC42 should submit an updated proposal and will be granted a 20-minute presentation at the PAC meeting. Following the public presentation session the PAC will continue its discussions in closed session, and at least one spokesperson should be available either in person or by phone for 24 hours after the public session to answer questions as the PAC's discussion progresses. If approved, the proposals will be considered for rating along with the other approved proposals in the grading session.

PAC Results

The results of the PAC's deliberations will become public as follows: the list of scientific ratings and beam time allocations will be provided to the Hall Leaders at the PAC closeout and then posted on the PAC42 website within 24 hours. The final written PAC report will be posted on the PAC42 website and the user community notified by email as usual.

Appendix: Scientific Categories for Nuclear Physics Proposals

1. **The Hadron spectra as probes of QCD**
(GlueX and heavy baryon and meson spectroscopy)
2. **The transverse structure of the hadrons**
(Elastic and transition Form Factors)
3. **The longitudinal structure of the hadrons**
(Unpolarized and polarized parton distribution functions)
4. **The 3D structure of the hadrons**
4G: Generalized Parton Distributions
4T: Transverse Momentum Distributions
5. **Hadrons and cold nuclear matter**
(Medium modification of the nucleons, quark hadronization, N-N correlations, hypernuclear spectroscopy, few-body experiments)
6. **Low-energy tests of the Standard Model and Fundamental Symmetries**
(MOLLER, PVDIS, PRIMEX, ...)