

Hall A E12-17-004
Experiment Readiness Review
Jefferson Lab May 29, 2019

Charge

1. Has the entire beamline, spectrometers, detector configuration been defined, including ownership, maintenance and control during beam operations?
2. What is the status of the equipment required for this experiment (i.e not in common with E12-09-019) towards operation? What is the completion/commissioning schedule and tasks? This should include:
 - a. GEMs and associated electronics
 - b. Neutron-scattering analyzer blocks
 - c. Mechanical supporting frames and all the mechanical components needed to move in-and-out the polarimeter
 - d. large-angle proton detectors and associated electronics
 - e. Integration in the DAQ and the slow controls
3. Have the specific equipment required by this experiment been demonstrated for readiness to operate and to achieve the scientific goals of the experiment? This includes demonstrating:
 - a. GEM reconstruction efficiency at high rate
 - b. Correct estimate of the polarimeter analyzing power (to achieve science goal in the approved beam time)
4. What is the simulation and data analysis software status for the experiment? Has readiness for expedient analysis of the data been demonstrated? What is the projected timeline for the first publication? Please provide a documented track record from previous experiments.
5. What is the impact of running this experiment on E12-09-019. Is a plan been developed and agreed upon with the E12-09-019 spokespersons?
6. Are the responsibilities for carrying out each job identified, and are the manpower and other resources necessary to complete them on time in place?
7. Are the radiation levels expected to be generated in the hall acceptable? Is any local shielding required to minimize the effects of radiation in the equipment?

8. What is the status of the specific documentation and procedures (COO, ESAD, RSAD, ERG, OSP's, operation manuals, etc.) to run the experiments?