

Hall A E12-07-109 Experiment Readiness Review Jefferson Lab April 24, 2023

Charge

- What is the status of the equipment required for this experiment towards operation? What is the completion/commissioning schedule and tasks? This should include:
 - a. Target and scattering chamber configuration and requirements
 - b. GEMs and associated electronics
 - c. Proton Polarimeter
 - d. Electromagnetic Calorimeter and associated electronics. Please discuss also the plan for lead-glass annehaling during data taking and the status towards its realization.
 - e. Coordinate Detector and associated electronics
 - f. Integration of all the above elements in the DAQ and the slow controls
- 2. 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) and its FOM.
- 3. Are the responsibilities for carrying out each job identified, and are the manpower and other resources necessary to complete them on time in place?
- 4. Has the entire beamline, spectrometers, detector configuration been defined, including ownership, maintenance and control during beam operations?
- 5. 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.
- 6. 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?



- 7. Are the beam commissioning procedures and machine protection systems sufficiently defined for this stage?
- 8. What is the status of the specific documentation and procedures (COO, ESAD, RSAD, ERG, OSP's, operation manuals, etc.) to run the experiment?