Readiness Review for "PASS1" cooking of CLAS12 data

Processing of CLAS12 data is a computing intense process that requires detailed planning and preparatory work to guarantee the quality of the output data. For this reason, a "readiness review" is requested to authorize the start of the reconstruction data processing of any new data set. The charge for this review is outlined below.

The review committee is requested to answer the charge questions based on the material presented by the Run-Group and report its findings, comments and recommendations to the CLAS Coordinating Committee.

Review Charge:

Charge #1: Is the quality of detector calibration and alignment adequate to achieve the performance specifications foreseen for CLAS12 or achievable at the current time, given the "state of the art" calibration, alignment and reconstruction algorithms?

Charge #2: Is data quality as a function of run number or time for the data set that is proposed for pass1 cooking stable and understood? Is reconstruction efficiency consistent with expectations and reproducible by appropriate MC simulations?

Charge #3: Are analysis plans for the data set developed at adequate levels? Is the list of planned skims defined and tested running analysis trains on preliminary data? Are preliminary analysis results for the main reaction channels and observable available and consistent with expectations? Is all ancillary information (helicity, Faraday Cup, …) available and understood?

Charge #4: are data processing tools that will be used adequate for the proposed processing task? Is the data management plan (staging area, tape destination, directory structure, logs, …) defined and appropriate given the available resources? Is the estimate of resources needed to complete the task sound?

Charge #5: What are the plans for monitoring the quality of the cooking output and identify/correct failures?

Charge #6: Is the manpower adequate for the proposed data processing?