

Review of the One-Sector RICH Counter for CLAS12 – 6/26-27/2013

Charge to the review committee:

Review panel for the CLAS12 RICH will evaluate the design, the so far completed R&D and prototyping, construction, installation, commissioning and operation plans. Specific aspects of the project that must be addressed are:

- Are the detector specifications clearly defined and do they reflect the physics requirements?
- Does the detector design meet the required specifications? Please specify in detail.
- Are there remaining issues in the project that require additional R&D and/or design changes?
- Has the impact of the RICH on the CLAS12 performance been evaluated? Specifically, does the RICH have any limiting effect on the performance of CLAS12, e.g. the maximum luminosity at which CLAS12 can be operated?
- Has the integration of the RICH into CLAS12 been addressed, in particular:
 - Possible interference with the other CLAS12 detector systems and the Torus magnet
 - The location of utility lines and signal readout cabling
 - The access for repair and maintenance
- Is the schedule for the construction and installation of the RICH in line with the CLAS12 installation plan
- Other comments that address potential weaknesses of the chosen design.