ID de Contribution: **28**   Type: **Poster**

The CLAS12 large area RICH detector

jeudi 6 mai 2010 10:00 (1 minute)

A large area RICH detector is being designed for the CLAS12 spectrometer as part of the the 12 GeV upgrade program of the Jefferson Lab Experimental Hall-B. This detector is intended to provide excellent hadron identification from 3 GeV/c up to momenta exceeding 8 GeV/c and to be able to work at the very high design luminosity - up to 10^{35} cm^2s^-1. Detailed feasibility studies are presented for two types of radiator, aerogel or liquid C6F14 freon, in conjunction with a highly segmented light detector in the visible wavelength range. The basic parameters of the RICH are outlined and the resulting performances, as defined by simulation studies, are reported.

Please indicate "poster" or "plenary" session. Final decision will be made by session coordinators.

plenary

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Classification de Session: Poster Session 2 (Summary)

Classification de thématique: Research & Development for future experiments