



Contribution ID: 181

Type: Poster (Session B)

A New Time-of-Flight System for the CLAS++ Detector

Jefferson Lab aims at further study of quark-gluon structure of hadrons. The US Department of Energy has placed Jlab on path toward the major upgrade of the Continuous Electron Beam Accelerator Facility. DOE has recently announced its decision to meet Jlab's proposal to double the accelerator energy from 6 to 12 GeV, to add a fourth experimental hall, and to upgrade the existing apparatus. The Nuclear Physics group from Kyungpook University, Republic of Korea, is to design the Central Time-of-Flight system for the future CLAS++ detector. The system will be used for the identification of particles emitted at central angles from 40 to 140 deg. It will operate in the high magnetic field of the central solenoid. The goal is to achieve TOF resolution 50 psec. The conceptual design, specifications, and the results of test measurements with different types of photomultipliers will be presented.

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