

ICHEP2012



Contribution ID: 605

Type: **Parallel Sessions**

The Large Hadron electron Collider Detector Design Concept (LHeC Study Group)

Saturday, July 7, 2012 3:15 PM (15 minutes)

The Conceptual Design Report for the Large Hadron Electron Collider has recently been released. This contribution summarises the part of the report covering design concepts for a new detector, which combines the demands of very high precision with those of large acceptance into a novel device for electron-proton physics at TeV energies. The physics and technical requirements, choices of detector techniques and the integration of the detector with the 3 beam interaction region including its magnet designs are presented.

Primary authors: Dr POLINI, Alessandro (DESY (DE) & CERN (CH)); NEWMAN, Paul (Birmingham University); Dr KOSTKA, Peter (DESY, Zeuthen); KOSTKA, Peter (Deutsches Elektronen-Synchrotron (DE))

Presenter: Dr POLINI, Alessandro (DESY (DE) & CERN (CH))

Session Classification: Room 218 - Future Accelerators - Detectors and Computing for HEP - TR14&13

Track Classification: Track 13. Detectors and Computing for HEP