Contribution ID: **2**   Type: **Oral**

The ATLAS Level-1 Central Trigger Processor

Tuesday 13 September 2005 11:00 (25 minutes)

The ATLAS Level-1 Central Trigger Processor (CTP) combines information from calorimeter and muon trigger processors and makes the final Level-1 Accept (L1A) decision on the basis of lists of selection criteria (trigger menus). In addition to the event-selection decision, the CTP also provides trigger summary information to the data acquisition system and the Level-2 trigger. It further provides accumulated and bunch-by-bunch scaler data for monitoring of the trigger, detector and beam conditions.
The CTP will be presented and results will be shown from tests with the calorimeter and muon trigger processors connected to detectors in a particle beam, as well as from stand-alone full-system tests in the laboratory which were used to validate the CTP.

Author: Mr SPIWOKS, Ralf (CERN)

Co-authors: KRASZNAHORKAY, Attila (CERN); SCHULER, Georges (CERN); PESSOA LIMA JUNIOR, Herman (University of Rio de Janeiro); RESURRECCION ARCAS, Ivan (CERN); HALLER, Johannes (CERN); DE SEIXAS, Jose Manuel (University of Rio de Janeiro); ELLIS, Nick (CERN); BORREGO AMARAL, Pedro (CERN); GALLNO, Per (CERN); FARTHOUAT, Philippe (CERN); TORGA TEIXEIRA, Rui (CERN); MAENO, Tadashi (CERN); PAULY, Thilo (CERN); WENGLER, Thorsten (CERN)

Presenter: Mr SPIWOKS, Ralf (CERN)

Session Classification: Parallel session B1

Track Classification: Triggering