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Integration Test of the ALICE Silicon Pixel Detector

The two innermost layers of the ALICE detector are formed by hybrid silicon pixel detectors. At radii of 3.6 cm and 7.6 cm the ~106 pixel cells of the ALICE Silicon Pixel Detector (SPD) will provide high granularity tracking information close to the interaction point. The installation of the SPD in the ALICE experiment is foreseen for January 2007. The integration of the SPD is carried out in a cleanroom at CERN. The final DAQ, detector control system (DCS) and cables have been installed in this facility to carry out the integration of the detector under experimental conditions. The SPD will not only provide data about the first beam interactions but will also contribute to the L0 trigger decision from the start of the experiment. The complete integration setup for the ALICE SPD is presented with special emphasis on the development of the DCS and DAQ. The test program on the individual sectors of the SPD is presented and recent results are summarized. Finally an outlook of the installation in the experiment is presented.

Author: CERESA, Simone (Unknown)

Presenter: CERESA, Simone (Unknown)