Contribution ID: **19** Type: **Poster and Presentation**

The ALICE Silicon Strip Detector performances during the first LHC data taking.

Friday, 3 September 2010 10:00 (5 minutes)

The Silicon Strip Detector (SSD) is a fundamental part of the Inner Tracking System (ITS) for the ALICE experiment. Since the early phase of p-p collisions at LHC, the SSD is fully operational and participating in the charged particle detection and identification carried out by ALICE. The performance of the SSD during the 900 GeV and 7 TeV collision data taking is presented here.
The stability of the system is monitored through the time evolution of its calibration parameters and their correlation with the environmental conditions. The intrinsic noise of the 2.6 million channels composing the SSD is used to assess the detector efficiency.
Finally the performances in terms of hit reconstruction and energy-loss measurement are discussed with reference to the global tracking and the ITS-standalone particle identification carried out in the first collision events.

Primary author: CONTIN, Giacomo (Dipartimento di Fisica-Universita degli Studi di Trieste / INFN Sezione di Trieste)

Presenter: CONTIN, Giacomo (Dipartimento di Fisica-Universita degli Studi di Trieste / INFN Sezione di Trieste)

Session Classification: Poster Presentations B

Track Classification: Poster