Contribution ID: 20 Type: Contributed Talk

## **Longevity Studies in the CDF Silicon Detectors**

Monday, 15 February 2010 17:25 (25 minutes)

The silicon detectors at the CDF Experiment in Run II have been collecting data steadily in a hard radiation environment for the last 8 years. This has led to the presence of some aging effects, such as type-inversion of the substrate or increase of the intrinsic noise, that are carefully monitored in order to maintain the detector performance at the highest level and to predict the useful lifetime of the different sensors. In this presentation, a summary of the studies is given as well as the current conclusions and expectations for the future of the detectors.

## Summary (Additional text describing your work. Can be pasted here or give an URL to a PDF document):

http://www-cdf.fnal.gov/~sergo/Si/IEEE\_summary.pdf

**Primary author:** Dr JINDARIANI, Sergo (Fermilab)

Presenter: Dr JINDARIANI, Sergo (Fermilab)

**Session Classification:** Large Detector Systems 3