



# DESY Seminar

7 March 2006, 17:00, DESY Hörsaal

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## *Silicon Tracking Detectors for the LHC Experiments*

The LHC experiments will include silicon hybrid pixel and microstrip detectors for track and vertex reconstruction. Due to the harsh LHC environment, characterized by high radiation backgrounds, the response of the silicon sensors during the detector operation is of great concern. In this seminar I will summarize the main features of the CMS and Atlas silicon trackers and present a detailed simulation of the CMS pixel sensors. The simulation implements a double-trap model of radiation damage and was tuned using test beam data collected with heavily irradiated pixel sensors.

- Tea and cookies will be served at 16:45 in the lobby.
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels also in the lobby.