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Status and Operational Experience with the CDF Run II Silicon Detector MARGARET JEZGHANI, North Georgia College and State University, SERGO JINDARIANI, FNAL, SATYAJIT BEHARI, Johns Hopkins University, SEBASTIAN CARRON, FNAL, CDF RUN II COLLABORATION — The CDF Run II silicon detector is the largest operating silicon detector in High Energy Physics. Its 722,000 channels spread over 7 m^2 of silicon micro-strip sensors allow precision tracking and vertexing. The CDF silicon detector played a critical role in the discovery of Bs mixing and is used extensively for the current Higgs Boson searches. Over the last 7 years, the detector ef?ciency has remained stable at 95% after the Run II commissioning period. The infrastructure (cooling, power supplies) problems dealt with and actions taken are discussed, with the emphasis on work during Summer 2009 shutdown.

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