

Impact on radiation on VELO sensors

The VERtex LOcator (VELO) is a silicon strip detector designed to reconstruct charged particle trajectories and vertices produced by proton-proton interactions near to the LHCb interaction point. Following the first two years of data collection at the LHC the effects of radiation damage have been observed in all of the 84 VELO silicon strip sensors. This talk presents results from several independent studies that have been carried out at LHCb to track the evolution of sensor properties with particle fluence. The sensor currents, depletion voltages and cluster finding efficiencies are investigated.