

Leakage current evolution in LHCb VELO sensors during Run 1-2 LHC data taking period.

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The data-taking period of LHC Run 2 was finished at the end of 2018, providing an opportunity to study radiation damage effects in the LHC's most heavily irradiated silicon devices. In this presentation, we discuss new analyses of the evolution of the leakage current in the LHCb VELO sensors, accompanied by predictions from the Hamburg model. The leakage current's radial and longitudinal (z-axis) dependencies will be discussed and compared with FLUKA simulations and results from other LHC experiments.

Type of presentation (in-person/online)

in-person presentation

Type of presentation (I. scientific results or II. project proposal)

I. Presentation on scientific results

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