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Results and prospects for Charm Physics at LHCb

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Precision measurements in charm physics offer a window into a unique sector of potential New Physics interactions. LHCb is poised to become a world leading experiment for charm studies, recording enormous statistics with a detector tailored for flavour physics. The conditions of the 2010-11 run of LHC are especially conducive to the collection of charm events, with a very large data set already attainable this year. First charm results will be shown using data collected at LHCb in pp collisions at 7 TeV center-of-mass energy, including measurements of the production cross-section and characterization of the signal samples in the key decay modes. The prospects for measurements of CP violation, mixing, and rare decays of charm mesons at LHCb will also be presented.

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