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Studies of charm mixing and CP violation at LHCb

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LHCb collected 1.0 fb^{-1} of data in 2011, corresponding to $O(10^8)$ fully reconstructed decays of open charm hadrons. This data provides unprecedented samples of charmed hadrons, allowing precise measurements of mixing and CP violation parameters. We report the results of searches for mixing and CP violation in 2-body and multi-body decays, with analyses using part or all of the 2011 data.

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Track Classification: Track 7. CP Violation, CKM, Rare Decays, Meson Spectroscopy