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Charm mixing and CPV

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Abstract:

LHCb has collected the world's largest sample of charmed hadrons. The $\sim 1 \text{ fb}^{-1}$ sample collected in 2011 is used to search for direct and indirect CP violation in charm, and to measure D^0 mixing parameters. Preliminary measurements from several decay modes are presented, with complementary time-dependent and time-integrated analyses. Together, these results significantly improve upon existing measurements.

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