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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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