

# Test of CP violation and measurement of mixing in charm at LHCb

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The copious number of  $D^0$  decays collected by the LHCb experiment during 2011-2018 enables tests for CP violation in charm decays and measurements of the  $D^0$  mixing parameters with unprecedented precision. To take maximum advantage of these statistics, control of systematic uncertainties is becoming more and more important, and will be even more so after the planned upgrades of the LHCb detector. We present the latest LHCb measurements of mixing and indirect CP violation in the decay of  $D^0$  mesons.

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