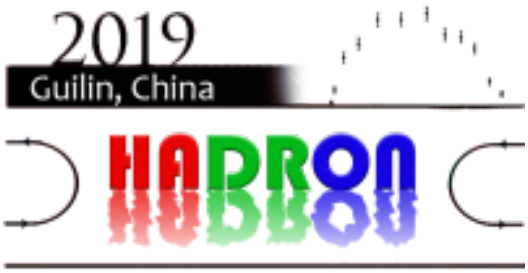

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Recent results on CP Violation in charm sector by LHCb

Saturday, 17 August 2019 14:30 (25 minutes)

The LHCb experiment at the LHC is a dedicated heavy flavour experiment studying hadrons containing bottom and charm quarks. During Run I (2010-2012) and Run II (2015-2018) LHCb has collected the world's largest sample of charmed hadrons which enables many studies of Charge-Parity violation (CPV) in the charm system with the highest precision up to this date.
This talk will present current results of direct and indirect CPV searches in the charm sector at LHCb with a special focus on the recent discovery of direct CPV in $D^0 \to K^-K^+/\pi^-\pi^+$ decays.

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Session Classification: Session 4: Hadron decays, production and interactions

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