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Charm and CP violation measurements from the LHC

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Measurements of CP- and flavour-violating transitions of charm and beauty hadrons are very powerful probes for physics beyond the standard model, that are complementary to the direct searches performed at the energy frontier. Experiments at the LHC are, since the start of Run 1 (2011-2012) playing a crucial role in this sector. The most recent highlights from LHCb, ATLAS and CMS are presented, based on both Run 1 and Run 2 (2015-) data, and prospects for the future are discussed.

Experimental Collaboration

LHCb

Presenter: DI CANTO, Angelo (CERN)**Session Classification:** Flavour and symmetries**Track Classification:** Flavour Physics and Fundamental Symmetries