Contribution ID: **597** Type: **Parallel**

CP violation in b-hadron decays to charmless charged two-body final states at LHCb

Friday 6 July 2018 11:40 (20 minutes)

The amplitudes governing the decays of neutral b-hadrons to charmless charged two-body final states receive relevant contribution from both b->u tree-level and b->d,s penguin topologies. Hence, these decays are sensitive probes of the CKM paradigm, but also have the potential to reveal new physics beyond the Standard Model. Relevant quantities to measure are time-dependent and time-integrated CP asymmetries, and branching ratios. We present the most recent measurements of these quantities performed by the LHCb experiment.

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Session Classification: Quark and Lepton Flavor Physics