Contribution ID: **22** Type: **Contributed Oral**

Time-dependent CPV in Bs decays at LHCb

Wednesday, 8 May 2019 14:25 (15 minutes)

Time-dependent CP-violation measurements of beauty mesons allow the determination of the mixing-induced CP-violating phases phi_s and beta. The measurement of the phase phi_s in the Bs-Bsbar system is one of the key goals of the LHCb experiment due to the sensitivity to physics beyond the Standard Model (BSM). The CP-violating phase is of interest in penguin dominated b->s transitions, in addition to that of tree-level decays, which test the flavour changing neutral current interaction describing B mixing. Both are sensitive to BSM phases and provide valuable tests and constraints. We present new results of time-dependent CP violation using data collected at LHCb between 2011 and 2016.

Email

kmueller@physik.uzh.ch

Primary author: GABRIEL, Emmy (Edinburgh)

Presenter: GABRIEL, Emmy (Edinburgh)

Session Classification: Parallel session 1

Track Classification: CP Violation in Hadrons and Leptons