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Measurement of time-dependent CP violation in $B_s^0 \rightarrow D_s^\mp K^\pm$ decays with LHCb

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In $B_s^0 \rightarrow D_s^\mp K^\pm$ decays CP violation in the interference between direct decay and decay after mixing results in a time-dependent asymmetry of the decay rates. From a measurement of this asymmetry five CP observables can be determined, which are themselves sensitive to the CKM angle γ . The talk presents the flavour-tagged analysis of the Run I dataset recorded by the LHCb experiment.

Author: EITSCHBERGER, Ulrich (Technische Universität Dortmund)

Orateur: EITSCHBERGER, Ulrich (Technische Universität Dortmund)

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