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Time-dependent CP asymmetries in Bs decays at LHCb

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The LHCb experiment will search for New Physics in Bs mixing, notably through the measurement of the Bs mixing phase from the time-dependent CP asymmetry in exclusive Bs decays governed by the b ->ccbar s quark-level transition. Large New Physics effects can be discovered or excluded with the data collected during the very first physics run of LHC. The latest expectations, based on MC studies with fully simulated events, will be presented. The LHCb sensitivity to other CP-violating observables in Bs decays will be reviewed.

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