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CP violation measurements in b hadrons at LHCb

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LHCb has been collecting the world's largest sample of beauty hadrons available to date. This sample has been used to measure different sources of CP violation and search for beyond-the-standard-model physics. We present a selection of measurements performed by LHCb using the full Run 1 dataset and in some cases part of the Run-2 dataset, notably including: the measurements of the semileptonic asymmetries, A_{SL}^b and A_{SL}^d ; the measurements of the CP-violating phase ϕ_s using $B_s \rightarrow J/\psi KK$ (including KK masses above the ϕ resonance) and $B_s \rightarrow J/\psi \pi\pi$ decays, and that of the phase ϕ_d using $B_d \rightarrow J/\psi KS$ decays; the measurement of the gamma angle of unitarity triangle via a number of decay modes; the measurement of CP violation in two-body B decays; and the search for CP violation using b-baryon decays. An outlook of upcoming measurements will also be given

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