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CP within Standard Model and Beyond at LHCb and Belle2

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The violation of the Charge and Parity symmetries (CP) is a necessary conditions to explain the imbalance between matter and antimatter in our universe. In the Standard Model the phase of the Cabibbo-Kobayashi-Maskawa (CKM) matrix is the only source of CP violation, it is however orders of magnitudes too small to explain the observed imbalance. 2023 marks not only the 150th anniversary of the SFP but also the 50th anniversary of the Kobayashi-Maskawa paper. Since then the parameters of the CKM matrix have been measured with increasing accuracy by several experiments. Overconstraining the parameters of this matrix via several measurements is a formidable test of the Standard Model and can bring to the discovery of physics beyond the standard Model and of new sources of CP violation. In this talk the latest results by LHCb and Belle II will be reviewed.

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