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## **Global fits of the Unitarity Triangle within the Standard Model. Updates from the UTfit collaboration.**

Flavour physics represents a unique test bench for the Standard Model (SM). New analyses performed at the LHC experiments and new results coming from Belle II are bringing unprecedented insights into CKM metrology and new results for rare decays. The CKM picture provides very precise SM predictions through global analyses.

We present here the results of the latest global SM analysis performed by the UTfit collaboration including all the most updated inputs from experiments, lattice QCD and phenomenological calculations for Summer 2025. We also present the perspectives for future UT analyses incorporating projections of experimental results and Lattice QCD computations after High-Luminosity LHC.

### **Secondary track**

**Authors:** COLLABORATION, UTfit; COLLABORATION, UTfit

**Session Classification:** T07

**Track Classification:** T07 - Flavour Physics and CP Violation