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The CKM analysis: inputs from theory

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The CKM matrix is the only source of mixing among quarks of different generations in the Standard Model and provides a mechanism for CP violation. Testing this paradigm has been one of the most successful tasks of particle physics in the last decade, with an accuracy which has continuously increased in time, on both the experimental and theoretical side. In this talk I review the current status of theoretical calculations which provide the relevant input to the CKM analysis, coming mostly from lattice QCD simulations.

Primary author: LUBICZ, Vittorio (Universita Roma Tre)

Presenter: LUBICZ, Vittorio (Universita Roma Tre)

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