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Heavy flavor physics

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Heavy meson decays are used to extract the fundamental parameters in Standard Model such as CKM matrix elements and probe new physics beyond the Standard Model. Lattice QCD provides a non-perturbative method to calculate the matrix elements in these processes. In this talk, I will review recent progress in the study of B and D meson decay constants, semileptonic decay form factors, B and D meson mixing. In addition, I will present the impact of lattice-QCD results on phenomenology and compare the latest Standard Model predictions with the experimental results.

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