

Seminar

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Determination of CKM Matrix Elements Using Lattice QCD

Lattice QCD is essential to calculate several hadronic contributions to matrix elements and form factors that are needed for the Standard Model expressions for various hadronic decays (or mixing). One or more CKM matrix elements are also part of such expressions. This talk will review how comparison of theory and experiment enables us to determine the CKM matrix with increasing precision and some of the tensions that currently exist with the CKM paradigm. Many of the results are from the Fermilab Lattice/MILC collaborations, but liberal use will be made of results from FLAG. The speaker is a member of the FLAG heavy-quark semileptonic working group.

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