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Heavy quark physics from Fermilab/MILC collaboration

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We present the results of our recent calculations of the hadronic form factors for semileptonic decays of B mesons and the matrix elements of local operators contributing to neutral B and Bs meson mixing. From joint fits of the lattice results and the experimental data we are able to determine the magnitude of the CKM matrix elements V_{ub} and V_{cb} , and also (with V_{tb} as an additional input) the matrix elements V_{td} and V_{ts} . These calculations were performed on 2+1 flavor MILC asqtad configurations with the Fermilab Wilson clover action for the charm and bottom quarks. The variety of lattice spacings and sea and valence quark masses allows for controlled continuum and chiral extrapolations.

Summary

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