

Seminar

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American Physical Society

Quark Mass Definition and Extraction from $(2+1+1)$ -Flavor Lattice QCD

I summarize a new heavy quark mass definition, the minimal renormalon subtracted (MRS) mass by the TUM QCD collaboration. It is based on the relation between the heavy quark mass and heavy-light meson masses in heavy quark effective theory. The Fermilab Lattice, MILC, and TUM QCD collaborations then used this new method to extract heavy quark masses using $(2+1+1)$ -flavor HISQ ensembles of the MILC collaboration including ensembles with physical light quarks. I end with showing results on heavy-light pseudoscalar meson decay constants obtained in a similar analysis.

Thursday, 24.10.2019, 14:15 Uhr

Place: D6-135