

Dispersive constraints on the SM flavor structure

Thursday, 6 June 2024 09:30 (1 hour)

We perform dispersive analyses of representative physical observables (heavy quark decay widths, neutral meson mixing, etc.) and demonstrate that the parameters involved in scalar interactions of the Standard Model (SM) is not completely free. The mass hierarchy from the neutrino masses up to the electroweak scale, and the distinct quark and lepton mixing patterns may be accommodated by means of the internal consistency of the SM dynamics. This understanding also points to possible new physics scenarios beyond the SM at high energy scales.

Please choose your flavour

Quarks

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