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SMEFT top-quark effects on \Delta F=2 observables

Thursday, 6 December 2018 15:45 (15 minutes)

We investigate model independent top-quark corrections to ΔF = 2 processes within the framework of the Standard Model Effective Field Theory. Dimension-six ΔF = 1 operators contribute to them though renormalization group evolutions and matching conditions. We provide a complete one-loop matching formula from the top quarks for ΔF = 2 transitions. We also demonstrate these corrections on ΔMBs in the left-right symmetric model, which are compared with the conventional calculations.

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