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Quark and Lepton Evolution Invariants in the Standard Model

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We construct a new set of Standard Model evolution invariants which link quark masses and mixing parameters. We examine their phenomenological implications and infer a simple combination of Yukawa coupling matrices which appears to play a unique role in the Standard Model. This suggests a possible new insight into the observed spectrum of quark masses. Similar evolution invariants are obtained for the leptons in the case of Dirac neutrinos.

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