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A realistic U(2) Model of Flavor

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I will discuss a simple U(2) model of flavor, where all hierarchies in fermion masses and mixings arise from powers of two small parameters. In contrast to previous U(2) models this setup can provide an excellent fit to all SM flavor observables including neutrinos, and one naturally obtains large mixing in the lepton sector from small mixing in the quark sector. The model predicts an upper bound on the neutrino mass scale below current cosmological bounds, and thus is testable in the near future. This model can also be used to address B-anomalies in the context of vector leptoquarks, where the flavor structure of the new couplings are connected to SM flavor hierarchies.

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