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Neutrino Masses and Mixings from Quark Mass Hierarchies

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Motivated by $SO(10)$ models with a vectorial fourth generation of down quarks and leptons, we consider the scenario where the neutrino Majorana and Dirac mass matrices coincide with those of up- and down-quarks, respectively. Then the small neutrino mass hierarchy follows from the mismatch of the quark mass hierarchies. Together with the observed leptonic mixing angles, we arrive at a tightly constrained scenario and we investigate the consequences for CP- and lepton-number violating processes.

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