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New parametrization of neutrino mixing matrix
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Abstract
Global fits to neutrino oscillation data are compatible with tri-bimaximal mixing pattern, which predict θ23 = π/4, θ12 = sin-1(1/√3) and θ13 = 0. We propose here to parametrize the tri-bimaximal mixing matrix V TBM by its hermitian generator HTBM using the exponential map. Then we use the exponential map to express the deviations from tri-bimaximal pattern by deriving the hermitian matrices Hz = 0 and H1. These deviations might come from the symmetry breaking of the neutrino and charged lepton sectors. © 2011 World Scientific Publishing Company.

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