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Calculable neutrino Dirac mass matrix in the minimal left-right symmetric model

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Based on the paper: arXiv:2404.16740 (PRD). In the context of minimal left-right symmetric model, where parity is taken as the left-right symmetry, we propose a general parametrization of the right-handed neutrino mixing matrix and construct the heavy neutrino mass matrix that maintains the Hermiticity of neutrino Dirac mass matrix. We further apply it to calculate the strong CP parameter from the leptonic CP violation at the one-loop level, which inversely constrains the heaviest sterile neutrino mass at the TeV scale.

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