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Lepton flavor violation in CP4 3HDM

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CP4 3HDM is a three-Higgs-doublet model based on the CP symmetry of order 4 (CP4) without any accidental symmetries. Imposing CP4 leads to remarkable connections between the scalar and Yukawa sectors and unavoidably generates tree-level Lepton Flavor-Violation (LFV). It remains unclear whether LFV can be sufficiently suppressed in the CP4 3HDM. Here we explore which CP4-invariant scenarios can agree with LFV Higgs decays and charged lepton flavor violation transitions mediated by new Higgs bosons.

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