Strong Scaling Ansatz of flavor neutrino mass matrix and normal mass hierarchy

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To uncover hidden structure of flavor neutrino mass matrix, we study properties of flavor neutrino mass obeying the strong scaling Ansatz (SSA) that predicts non maximal $\nu_2 - \nu_3$ mixing, vanishing U_{e3} and inverted mass hierarchy.

However, we find another possibility of SSA that tiny deviation from this Ansatz permits us to realize normal mass hierarchy and tiny value of θ_{13} which allows Dirac CP violation.

We can clarify correlations of mass parameter and CP violating phases and compare these dependences of CP violating phases on mass parameters in the case of the normal mass hierarchy with these of the inverted mass hierarchy.

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