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## The adjoint $SU(5)$ constrained by a $Z_4$ flavour symmetry

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In this work, we study the implications in the neutrino sector of a  $Z_4$  flavour symmetry in the context of a non-supersymmetric  $SU(5)$ , where both up- and down-quark mass matrices have the nearest-neighbour interaction form. The model is composed by one 5 and one 45 Higgs representations and in addition to the standard fermionic content, it is added three 24 fermionic representations. In such case, the light neutrinos get mass through the usual type I + III seesaw mechanism.

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