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An approach to Dirac neutrino masses through the use of texture zeros

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In this work, we consider some phenomenological consequences of having neutrinos with Dirac masses instead of Majorana masses as assumed in most of the current literature. In order to carry out this analysis, we propose new five-zero textures for the mass matrices of the leptonic sector. From our approach, we find new values for the neutrino masses in both, the normal and inverted hierarchy. These zero textures reproduce the U_{pmns} mixing matrix and deliver relationships between the mixing angles and the leptonic sector masses.

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