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Majorana neutrino mass matrices induced by rigid E-brane instantons

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We study the effects of D-brane instantons wrapping rigid cycles on the $Z_2 \times Z_2$ toroidal orbifold. We compute Majorana masses induced by rigid D-brane instantons and realize bimaximal mixing matrices in certain models. We can also derive more generic mass matrices in other models. The bimaximal mixing Majorana mass matrix provides a possibility for explaining observed mixing angles. We also compute the μ -term matrix among more than one pair of Higgs fields induced by rigid D-brane instantons.

Summary

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