

Model building on the non-factorisable type IIA $T6/(Z_4 \times \Omega R)$ orientifold

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We studied the geometry of the non-factorizable toroidal Z_4 -orientifold and verified the analogies and differences to the factorizable case. The non-factorizable structure gives rise to additional constraints on the wrapping numbers for building fractional cycles and Lagrangian cycles. Thus, we can extend model building with intersecting D6-branes to non-factorizable orientifolds. We found that some global supersymmetric Pati-Salam-models with four generations are possible.

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