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Exploring the landscape of heterotic strings with 16 supercharges

We use lattice manipulation algorithms to determine the possible non-abelian groups that can be realized as gauge symmetries in the heterotic string compactified on T^d with $d = 1, 2, 3, 4$. We extend these results to the rank reduced gauge groups that correspond to asymmetric orbifolds of these compactifications which preserve supersymmetry, and find a map connecting all the rank reduced groups with those of maximal rank.

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