

Target space duality of non-supersymmetric string theory

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The target space duality of string theory without spacetime supersymmetry, which is constructed by splitting the Narain lattice by a shift-vector with order 2, is investigated. We show that the duality symmetry of such a model is obtained by imposing a congruence condition on $O(d_L, d_R, \mathbb{Z})$, that is, the non-supersymmetric string model is invariant under a congruence subgroup of $O(d_L, d_R, \mathbb{Z})$.

Presenter: NAKAJIMA, Sota (Osaka City U)

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