

New Non-SUSY Tachyon-Free Rigid Strings

Tuesday, 25 June 2024 16:30 (15 minutes)

In the past four decades of string theory research, the $O(16) \times O(16)$ heterotic string in 10d has stood alone as the only non-supersymmetric, tachyon-free string model with one scalar. We introduce new non-supersymmetric and tachyon-free string theories that serve as the lower-dimensional counterparts to the $O(16) \times O(16)$ string in 4d, 6d, and 8d, each featuring only one neutral scalar.

Presenter: TARAZI, Houri Christina

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