

Brane solutions in non-supersymmetric strings

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The gravitational backreaction of the absence of spacetime supersymmetry in string theory has dramatic effects, forbidding the tree-level flat Minkowski and requiring new vacuum solutions. A similar fate is expected for localized sources: brane solutions must change drastically.

In this talk, I will discuss ongoing work on the gravity description of branes in non-supersymmetric tachyon-free ten-dimensional strings, emphasizing the emergence of universal asymptotic behavior.

I will also describe an alternative viewpoint in which branes are embedded in the shifted vacuum.

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