

Non-supersymmetric vacua in string theory and their stability

Friday 11 July 2025 11:00 (30 minutes)

I will show how to quickly check stability under many non-perturbative decay channels for several old and new non-supersymmetric AdS vacua in type II string theory, on coset spaces, sphere fibrations, and Kähler–Einstein manifolds. I will do so using calibrations, which are more commonly used for supersymmetric vacua. I will also mention how some of the same spaces can be used to produce new AdS solutions for the heterotic $SO(16) \times SO(16)$ theory

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