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Kaluza-Klein spectrometry for supergravity

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I review new tools for the computation of Kaluza-Klein mass spectra associated with compactifications around various background geometries relevant for string theory. This includes geometries with little to no remaining symmetries, hardly accessible to standard methods. The new tools build on exceptional field theory, the duality covariant formulation of supergravity. Applications include the identification of non-supersymmetric AdS₄ vacua which are perturbatively stable at all Kaluza-Klein levels.

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