

The supersymmetric anti-D3-brane action in KKLT

Tuesday 25 June 2019 17:00 (15 minutes)

An anti-D3-brane plays a crucial role in the construction of semi-realistic cosmological models in string theory. Part of its action provides an uplift term that has been used to lift AdS solutions to phenomenological viable dS vacua in the KKLT and LVS setups. This uplift breaks supersymmetry spontaneously and it can be described in the 4d N=1 supergravity language by using non-linear supersymmetry. I will present and discuss the necessary ingredients to write down the complete 4d N=1 supergravity action for an anti-D3-brane coupled to all closed string background fields.

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