

News on the anti-D3-brane uplift

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For the anti-D3-brane uplift one places p anti-D3-branes at the tip of a Klebanov-Strassler (KS) throat. This setup can only contribute positively to the vacuum energy if it is stable against the so called KPV decay where the anti-branes puff up into an NS5-brane which subsequently annihilates against flux and forms a supersymmetric state at zero vacuum energy. In this talk, I will discuss this setup of p anti-D3 branes at the tip of the KS throat at higher orders in α' from the perspective of a nonabelian stack of D3-branes and recap some earlier results from the puffed up NS5-brane perspective. I will point out advantages of both pictures and discuss implications for phenomenology.

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