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Uplift and towers of states in warped throat

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The difficulty in realizing the metastable de Sitter vacuum in the string model has been considered in light of the distance conjecture. In this talk, we investigate the Type IIB compactifications containing the warped throat and point out that the uplift potential produced by anti-D3 branes satisfies the scaling behavior with respect to the tower mass scale, hence can be directly connected to the distance conjecture. Unless the throat length is extremely close to zero, the tower mass scale corresponds to the Kaluza-Klein mass, the lowest tower mass scale.

Primary author: SEO, Min-Seok

Presenter: SEO, Min-Seok

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