

S-folds : global issues and symmetry breaking

Thursday 23 September 2021 10:15 (15 minutes)

Non-geometric solutions of type IIB supergravity - called S-folds - have recently attracted a lot of attention. They are of particular interest as they can easily be seen as solutions of 4D and 5D gauged maximal supergravity. Moreover, they are conjectured to be the holographic dual of certain localized interfaces in SYM_4 . In this talk we will review such solutions and focus on their symmetry breaking pattern by exactly marginal deformations. Using Exceptional Field Theory this will reveal a surprising behavior as apparently non-compact deformations in 4D are realized as periodic deformations of the 10D uplift. We will characterize the monodromy-induced patterns of symmetry breaking as classified by the mapping torus $T_h(S^5)$.

Do you wish to attend the workshop on-site?

no

Summary

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