Contribution ID: **281** Type: **not specified**

Symmetries and M-theory-like Vacua in Four Dimensions

Monday 7 July 2025 16:00 (30 minutes)

Non-geometric flux vacua have recently been revisited, leading to the remarkable discovery of isolated 4D N=1N=1 supersymmetric Minkowski vacua. These constructions rely on the non-renormalization of the superpotential, which is supported by heuristic arguments. Given the significance of verifying the existence of these isolated M-theory-like vacua, we present alternative symmetry-based arguments that arrive at the same conclusion. Additionally, we leverage these symmetries to argue for the existence of unstable dS solutions as well as supersymmetric AdS solutions.

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