An M-theory dS4 maximum from Casimir energies and Riemann-flat manifolds

Bruno Valeixo Bento*[1]

[1]Instituto de Física Teórica UAM/CSIC (IFT) – C/ Nicolás Cabrera 13-15, Campus de Cantoblanco, 28049 Madrid Spain, Spain

Abstract

A dS4 maximum solution of M-theory–fully explicit and under control–will be presented. This solution arises from a balance of Casimir energies and fluxes, in a compactification of 11d supergravity on a 7-dimensional Riemann-flat Manifold (RFM). In this talk, I will present the different ingredients required, highlighting their key features, and the 4d de Sitter maximum we have found, including its main properties and control.

*Speaker