Consistent truncation and de Sitter space from gravitational instantons

Thursday, 27 June 2019 15:45 (15 minutes)

I will present a four-dimensional consistent truncation of type IIA supergravity in the presence of fermionic condensates generated by gravitational instantons. The condensates are controlled by the ratio of the characteristic length of the internal Calabi-Yau to the string length, and can be fine-tuned to be dominant in a region of large volume and small string coupling. The consistent truncation admits de Sitter solutions supported by the condensates, subject to certain validity conditions.

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