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Vacua of Maximal Supergravity and the cosmological constant

Friday, 20 January 2012 09:20 (20 minutes)

I will discuss recent developments in the construction of supergravity models in four dimensions with gauge interactions and in the identification of their vacua. The issue of stability of these solutions will be addressed and a link between gauge interactions and allowed values of the cosmological constant will be discussed. I will also outline an interesting structure that arises among the different new theories and vacua that have been found.

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