Contribution ID: **1114** Type: **Parallel Session Talk**

Supersymmetry breaking branes and de Sitter vacua in generalised geometry

Thursday 22 July 2010 11:44 (18 minutes)

We discuss supersymmetry breaking compactifications in type IIA and we propose a new treatment of non-supersymmetric sources: for space-time filling supersymmetric branes, the energy density is minimized by a pullback of a special form given by a pure spinor. We propose to extremise the combined bulk-brane energy density by replacing the DBI action by a pullback of a polyform from the bulk, which is no longer pure.

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Session Classification: 12 - Beyond Quantum Field Theory Approaches (including String Theories)

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