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Supersymmetry breaking branes and de Sitter vacua in generalised geometry

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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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