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F and D Supersymmetry Breaking in AdS Space

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The Nelson-Seiberg arguments of the connection between supersymmetry breaking and R-symmetry breaking is determined for gauged and localized supersymmetry theories with generic superpotential. This is a study of symmetry breaking in supergravity theory. The metastable vacua of supergravity from the contribution of F and D auxiliary fields in superpotential are determined, and also anti-de Sitter vacua. One find that the cosmological constant and vacuum energy could also be lifted to a small positive value.

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