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Warped de Sitter compactifications

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We show that the warped de Sitter compactification is possible under certain conditions in D-dimensional gravitational theory coupled to a dilaton, a form field strength, and a cosmological constant. We find that the solutions of field equations give de Sitter spacetime with the warped structure. We also discuss the dynamics of moduli in the lower-dimensional effective theories and show that the internal space moduli can be fixed by the flux if the indices of non-vanishing components of the field strength could be along the internal space.

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