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Exponential expansion through decaying Anti-de Sitter

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I will discuss a recent construction wherein an effective de Sitter spacetime appears as a non-supersymmetric AdS vacuum decays into the supersymmetric vacuum. Four-dimensional observers are localized on a spherical brane which nucleates to facilitate the decay. The expansion of the brane bubble then leads to an effective four-dimensional de Sitter space. This construction side-steps the difficulties of constructing scale-separated de Sitter vacua or inflating spacetimes in traditional flux compactifications. I will discuss new developments concerning four-dimensional phenomenology and the embedding of the scenario in string theory.

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