

Phase transition configurations in de Sitter are $O(4)$ symmetric

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In this collaboration between pure mathematics and cosmology we show that in de Sitter, bounce solutions, or the instanton configurations that trigger vacuum decay during inflation, are $O(4)$ symmetric. This fact has so far been assumed through analogy with the flat spacetime case but never proved. The proof follows from recent progress in geometric PDE and min-max methods

Abstract Track

Flash talk, cross-cutting collaboration

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