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

Tuesday, 24 November 2020 15:42 (3 minutes)

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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