

The Curious Case of de Sitter vacua

Friday, January 19, 2024 5:00 PM (30 minutes)

Surprisingly (or not) de Sitter vacua has proved hard to find in the string Landscape. Although some proposals have been made over the years, the details of the necessary ingredients and questions of control have been raised as potential loopholes in these constructions. The difficulty of realising a clean and beyond-any-doubt de Sitter vacuum has lead to its own Swampland conjecture, which – instead of killing the hope to find one – has intensified the search more than ever. In this talk I will give a brief overview of the curious case of de Sitter vacua as it stands and present an attempt to construct one using Casimir energies and flat compact manifolds.

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