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Real-time analysis of vacuum decay in curved spacetime

Wednesday, 9 July 2025 10:00 (30 minutes)

The phase transition of a false vacuum due to a first-order phase transition has been studied by analysis using Euclidean time conventionally. Such analysis has also been performed for curved spacetimes, and a certain thermodynamic interpretation has been given to phase transitions in de Sitter spacetimes and spacetimes containing black holes. In this talk, I will distinguish myself from such studies by presenting an analysis using Lorentz time, and will discuss how the same problem can be interpreted.

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