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High Energy Physics - Theory

Safety of Minkowski Vacuum

Gia Dvali

(Submitted on 5 Jul 2011)

We give a simple argument suggesting that in a consistent quantum field theory tunneling from Minkowski to a lower energy vacuum must be impossible. Theories that allow for such a tunneling also allow for localized states of negative mass, and therefore, should be inconsistent.

Comments: 3 pages, Latex

Subjects: High Energy Physics - Theory (hep-th); Cosmology and

> Extragalactic Astrophysics (astro-ph.CO); General Relativity and Quantum Cosmology (gr-qc); High Energy Physics -

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