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On Negative Mass

Saturday, 1 June 2019 10:00 (15 minutes)

We review the notion of negative mass in general relativity. We show the existence of stable, thin wall bubbles in a de Sitter background. The outside metric is the exact negative mass Schwarzschild-de Sitter metric, while inside, it is a smooth non-singular metric, with a corresponding energy-momentum tensor that satisfies the dominant energy condition.

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