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A generalization of States of Low Energy on Globally Hyperbolic Spacetimes

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The fact that the renormalized energy density smeared along a timelike curve on a globally hyperbolic spacetime possesses a lower bound stimulates the pursuit of an explicit construction of a state whose energy is minimal. Such a task was completed for Robertson-Walker spacetimes and these states were named States of Low Energy. In this communication we construct such states for more general spacetimes and show which obstacles prevent a completely general construction.

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