

On the positivity of mass for asymptotically AdS spacetimes

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Abstract

We discuss an approach to the proof of positivity of mass, without spin assumption, for asymptotically AdS spacetimes, based on the general methodology of Schoen and Yau. Our approach makes use of the “brane action” introduced by Witten and Yau in their work on the AdS/CFT correspondence, and takes hints from the work of Lohkamp. This is joint work with Lars Andersson and Mingliang Cai.