A positive mass theorem for asymptotically flat manifolds with a non-compact boundary

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Resumo

I will discuss a positive mass theorem for non-compact manifolds with boundary, which have ends asymptotic to the Euclidean half-space. For spin manifolds or for dimensions up to 7, our result settles a conjecture posed in my recent paper concerning the convergence of a Yamabetype flow on manifolds with boundary. This is a joint work with Ezequiel Barbosa (UFMG) and Levi de Lima (UFC).