A tour to the Positive Mass Theorem and beyond

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Abstract
The Positive Mass Theorem has been a cornerstone of mathematical general relativity since the resolution of the three dimensional case in the 80’s. In this talk, we begin with a calculus proof of a special graphical setting of the theorem. After providing the necessary background in differential geometry, we then discuss both the classical results and recent progress toward the more general case, as well as the stability statement of the theorem.