SPACETIME POSITIVE MASS THEOREM.
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ABSTRACT

It is fundamental to understand a manifold with positive scalar curvature and its topology. The minimal surface approach pioneered by R. Schoen and S.T. Yau have advanced our understanding of positively curved manifolds. A very important result is their famous resolution to the Riemannian positive mass theorem. In general relativity, the concepts of positive scalar curvature and minimal surfaces naturally extend. The extensions connect to a more general statement, so-called the spacetime positive mass conjecture. We will overview recent progress on the spacetime positive mass conjecture. The talk is based on joint work with M. Eichmair, D. Lee, R. Schoen and with D. Lee.

Wednesday, 13 March 2019
4:00 pm
Smith Hall 204
Tea and refreshments will be served at 3:45pm.

http://math.newark.rutgers.edu/~xiaowwan/Colloquium/