



Speaker: Qing Han
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Tuesday, September 25, 2012
11:00 AM
258 Hurley Hall

Title: On the General Penrose Inequality

Abstract:

In an attempt to prove the Penrose inequality in the setting of general initial data for the Einstein equations, we introduce the generalized Jang equation, which is a natural extension of an equation studied and used by Schoen and Yau in their proof of the positive mass theorem. In this talk we give an extensive study of the generalized equation, proving existence, regularity, and blow-up results.