

# Recent progress on the bounded $L^2$ curvature conjecture in General Relativity

Sergiu Klainerman, Princeton University

Abstract:

The bounded  $L^2$  curvature in GR asserts that the initial value problem is well posed for initial data sets whose curvature is bounded in the local  $L^2$  norm on the initial manifold. Though the conjecture is not yet solved I will talk about recent results which are intimately tied to the conjecture.