



Speaker: Gabor Szekelyhidi
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Thursday, October 11, 2012
2:00 PM
258 Hurley Hall

Title: On the positive mass theorem for manifolds with corners

Abstract:

A problem originally studied by P. Miao is whether the positive mass theorem holds on manifolds with certain singularities along a hypersurface. I will discuss an approach to this problem which uses the Ricci flow to smooth out the metric, so that one can apply the usual positive mass theorem. This allows for extending the rigidity statement in the zero mass case to higher dimensions, which was only known in the 3 dimensional case previously. This is joint work with D. McFeron.