



Speaker: Yevgeny Liokumovich
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Wednesday, January 17, 2018

4:00 PM

127 Hayes-Healy Hall

Title: Recent progress in Min-Max Theory

Abstract:

Almgren-Pitts Min-Max Theory is a method of constructing minimal hypersurfaces in Riemannian manifolds. In the last few years a number of long-standing open problems in Geometry, Geometric Analysis and 3-manifold Topology have been solved using this method. I will explain the main ideas and challenges in Min-Max Theory with an emphasis on its quantitative aspect: what quantitative information about the geometry and topology of minimal hypersurfaces can be extracted from the theory?