



# Algebra/Topology Seminar

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## STABILIZATION AND CLASSIFICATION OF EMBEDDED THICKENINGS

Thursday, December 6, 2012  
1:15 p.m. in ES-143

**ABSTRACT.** In this talk, I will give a brief development of the study of smooth embeddings of manifolds from a homotopy-theoretic point of view, and then present some new results in the setting of Poincaré Duality spaces. In particular, I will describe a homotopy-theoretic version of smooth embeddings, known as “Embedded Thickenings” or “Poincaré Duality Embeddings”, and present theorems, set in the Poincaré Duality category, which generalize some smooth results of Frank Connolly and Bruce Williams from the late 1970’s.