

Speaker: Ben Fehrman
University Notre Dame

Monday, April 28, 2008
4:30 pm
129 Hayes-Healy Hall

Title: The Pontryagin-Thom construction

Abstract:

I will describe the Pontryagin-Thom construction which is a bijection between the homotopy classes of smooth maps $M^m \rightarrow S^k$ and the cobordisms classes of framed submanifolds of M^m of codimension k . As an application I will prove Hurewicz theorem which states that the homotopy class of a map $S^k \rightarrow S^k$ is uniquely and completely determined by its degree.