

University of Notre Dame Department of Mathematics

# TOPOLOGY SEMINAR

**James Davis**

Indiana University

*Will give a lecture entitled:*

## **Smith Theory and Group Actions on Aspherical Manifolds**

*On*

Thursday, April 21, 2011

*At*

12:45 PM

*In*

258 Hurley Hall

### ***Abstract***

In this talk, we discuss how Smith theory applies to topological actions of  $p$ -groups on aspherical manifolds. The focus is on a certain result of Connolly–Davis–Khan, which states that an  $H_1$ -negative involution on the  $n$ -torus has exactly  $2^n$  fixed points.