

UWM Math Colloquium

Ph.D. Defense

Monday, April 28, 2008, 2:00 PM, EMS E423

*“Explicit Construction of a Robust Family of
Compact Inertial Manifolds”*

by

Joseph Lee Shomberg

*Under the Supervision of Professor Albert Milani
The University of Wisconsin-Milwaukee, 2008*

Abstract:

A construction of a robust family of compact inertial manifolds is presented. The result aims to complete an analysis of certain types of attracting sets for a class of dissipative infinite-dimensional dynamical systems. Application to a hyperbolically relaxed Chaffee-Infante reaction diffusion equation is also discussed.