

# **Analysis/dynamical systems Seminar**

Thursday, April 9, 2015

4:00-4:50 pm in Hume 331

## **Perfect Reeb flows and action index relations**

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In this talk we will discuss a recent work where we study non-degenerate Reeb flows arising from perfect contact forms, i.e., the forms with vanishing contact homology differential. The main results are upper bounds on the number of simple closed Reeb orbits for such forms on a variety of contact manifolds and certain action-index resonance relations for the standard contact sphere.