Felix Klein Seminar

UNIVERSITY OF NOTRE DAME
Department of Mathematics

Speaker: Valentin Zakharevich
University of Texas at Austin

Thursday, November 30, 2017
2:00 PM
258 Hurley Hall

Title: Twisted Equivariant K-Theory of non-connected Lie Groups

Abstract:

In this talk I will present a computation of twisted equivariant K-Theory of a non-connected Lie group acting on itself by conjugation. The computation is motivated by a recent construction in physics literature of gauging an action of a finite group on a three-dimensional topological quantum field theory (TQFT). In the first half of the talk, I will discuss the connection between K-theory, Chern-Simons TQFTs, and their symmetries. In the second half, I will describe the algebraic topology and representation theory relevant to the computation.