Department of Mathematics

University of Notre Dame

Nick Rozenblyum - University of Chicago

TOPOLOGY SEMINAR

Guest Speaker: Nick Rozenblyum
University of Chicago

Date: Tuesday, October 25, 2016
Time: 3:00 PM
Location: 258 Hurley Hall

Lecture Title:

Topological applications of quantization in derived geometry

Abstract

Derived geometry, and particularly the theory of shifted symplectic structures, has recently become a central tool in mathematical physics. Roughly, the theory of shifted symplectic structures is a homotopical version of symplectic geometry. In addition to being a natural setting for the BV approach to Feynman integration, this theory provides a robust framework for various counting problems in geometry and topology, such as the Casson invariant and its generalizations. I will give a brief overview of the general theory and describe some of the topological applications.