

Title: A shadow perspective on equivariant Hochschild homologies

Abstract: Shadows for bicategories, defined by Ponto, provide a useful framework that generalizes classical and topological Hochschild homology. In this talk, I will explain how to define Hochschild-type invariants for monoids in a symmetric monoidal, simplicial model category V , as well as for small V -categories. Each of these constructions extends to a shadow on an appropriate bicategory, which implies in particular that they are Morita invariant. I will also define a generalized theory of Hochschild homology twisted by an automorphism and show that it is Morita invariant. I will show in particular that Hochschild homology of Green functors and C_n -twisted topological Hochschild homology fit into this framework, implying that these theories are Morita invariant.

Joint work with Katharine Adamyk, Teena Gerhardt, Inbar Klang, and Hana Jia Kong.