

Topology Seminar

Foling Zou

of The University of Michigan will be speaking on

Nonabelian Poincare duality theorem and
equivariant factorization homology of Thom
spectra

on May 10 at 4:30 in
MIT Room Zoom

The factorization homology are invariants of n -dimensional manifolds with some fixed tangential structures that take coefficients in suitable E_n -algebras. I will give a definition for the equivariant factorization homology of a framed manifold for a finite group G via a monadic bar construction following Miller-Kupers. I will also talk about the unital variant of symmetric sequences that is underneath this construction. Then I will talk about the equivariant nonabelian Poincare duality theorem in this case and the equivariant factorization homology on equivariant spheres for certain Thom spectra. This is joint with Asaf Horev, Inbar Klang, Peter May and Ruoqi Zhang.