



Topology Seminar at Texas State

Friday, 2019, April 26, 11:00-11:50 a.m., in DERR 333

Speaker: Dr. Hiro Tanaka



Topic: *Factorization homology*

ABSTRACT

Factorization homology is a way to simultaneously construct invariants of manifolds, and of higher algebras. It's been popular recently as a way to construct topological fields theories and as a way to unify various phenomena in topology and algebra (like Hochschild homology, cyclotomic structures, *etc.*). I will begin the talk with a down-to-earth explanation of how associative structures are inherently expressible using the geometry of manifolds, to explain how one can construct algebra invariants using manifolds.