

Algebra and Geometry Seminar

Speaker: Thomas Brüstle (Université de Sherbrooke)

Title: Homological approximations in persistence theory.

Abstract: Multiparameter persistence modules are defined over a wild algebra and therefore they do not admit a complete discrete invariant. One thus tries in persistence theory to “approximate” such a module by a more manageable class of modules. Using that approach we define a class of invariants for persistence modules based on ideas from homological algebra. This is a report on joint work with Benjamin Blanchette and Eric Hanson.