Essential dimension of representations of algebra

Federico Scavia, UBC

Tuesday, November 13, 2018 - 1:30pm
PDL C-36

Abstract: The essential dimension of an algebraic object is the minimal number of independent parameters one needs to define it. I will explain how the representation type of a finitely-generated algebra (finite, tame, wild) is determined by the essential dimension of the functors of its n-dimensional representations and I will introduce new numerical invariants for algebras. I will then illustrate the theorem by explicitly determining the invariants in the case of quiver algebras.