

Algebra and Geometry Seminar

Speaker: Sebastian Eckert (Max Planck Institute)

Title: Amenable representation type and dimension expanders

Abstract: Algebras of amenable representation type, introduced by G. Elek, are characterized by every indecomposable module being "almost" the direct sum of modules of bounded dimension. Elek conjectures that an algebra is of amenable type iff it is tame. In the talk, I will give the precise definitions, discuss the amenability of string algebras such as the Kronecker quiver and discuss consequences for tame hereditary algebras. We will also see how the notion of dimension expanders can be applied to prove that finitely controlled wild algebra cannot be of amenable representation type.