Algebra and Geometry Seminar

Speaker: Kaveh Mousavand (Queen's University)

Title: Module varieties of biserial algebras.

Abstract: Biserial algebras form and important family of tame algebras which contain several interesting families, such as gentle, string and special biserial algebras. In our ongoing joint work with Charles Paquette, we have verified a recent conjecture on the behavior of Schur representations (a.k.a bricks) over biserial algebras. This allows us to better describe the behavior of irreducible components of moduli spaces of representations over biserial algebras and also relate our results to the recent work of Chindris-Kinser-Weyman on the semi-invariants of the ring of polynomials of every such components.

In the hope of a more tractable account of our work, in this talk I neither assume familiarity with τ-tilting theory, nor will I use very advance tools from algebraic geometry.