

1123-16-179

Calin I Chindris* (chindrisc@missouri.edu), University of Missouri, 202 Math Sciences Building, 810 E. Rollins Str, Columbia, MO 65211. *On the invariant theory for special biserial algebras*. Preliminary report.

This talk is based on joint work with Andy Carroll, Ryan Kinser, Amelie Schreiber, and Jerzy Weyman. It is about studying modules of finite-dimensional algebras via invariant theory. The goal here is to find characterizations of the tameness (more generally, Schur-tameness) of an algebra in terms of its moduli spaces of modules. In this talk, we show that under certain assumptions, the irreducible components of any moduli space of modules of a special biserial algebra are just products of projective spaces. Along the way, we also describe several reduction techniques for studying moduli spaces of modules of arbitrary finite-dimensional algebras. (Received August 25, 2016)