

SPEAKER: Lauren Grimley (Univ. of Oklahoma)

TITLE: Schur-Weyl duality for multiloop Lie algebras

ABSTRACT: The classical Schur-Weyl duality defines a correspondence between finite dimensional irreducible representations of the general linear and symmetric groups. Using the techniques of Chari-Pressley, Flicker demonstrated that this duality could be extended to affine Lie algebras of type A. With V. Chari, Z. Lin, C. Mangum, E. Wilson, C. Uhl, we further extended the Schur-Weyl duality for multiloop Lie algebras of type A. In this talk, I'll describe two different approaches to extend Schur-Weyl dualities to the multiloop setting.