

1123-20-181

**Christopher M Drupieski\*** (c.drupieski@depaul.edu) and **Jonathan R Kujawa**. *Support varieties for Lie superalgebras*.

In the mid 1980s, Friedlander and Parshall developed the theory of cohomological support varieties for restricted Lie algebras. This theory (modeled on the support variety theory for finite groups developed by Jon Carlson and others in the early 1980s) associates to each representation of a restricted Lie algebra  $\mathfrak{g}$  a corresponding affine algebraic variety, defined in terms of the cohomology of the restricted enveloping algebra  $V(\mathfrak{g})$  of  $\mathfrak{g}$ . Friedlander and Parshall showed how the cohomological support variety of a restricted  $\mathfrak{g}$ -module  $V$  geometrically encodes interesting representation-theoretic information about  $V$ .

In this talk I will discuss recent and ongoing work with Jon Kujawa to investigate support varieties for (restricted) Lie superalgebras and other related graded objects. (Received August 25, 2016)