

1125-17-630

Christopher M Drupieski, Dept. of Mathematical Sciences, DePaul University, 2320 N Kenmore Ave, Chicago, IL 60614-3210, and **Jonathan R Kujawa***, Dept. of Mathematics, University of Oklahoma, Norman, OK 73019-3103. *Support varieties for Lie superalgebras and supergroups in positive characteristic.*

Cohomological support varieties are a fundamental tool in the study of representations of finite groups, restricted Lie algebras, finite group schemes, and related structures. In the super (i.e. $\mathbf{Z}/2\mathbf{Z}$ -graded) setting these varieties were introduced and investigated by Boe-Kujawa-Nakano in characteristic zero. In this talk I will discuss ongoing work with Chris Drupieski to investigate cohomological varieties for graded objects over a field of positive characteristic. Our results reveal interesting generalizations of the classical theory. (Received September 08, 2016)