

ALGEBRA
SEMINAR

Lie superalgebras: geometry and cohomology

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Abstract: Let g be a simple classical Lie superalgebra. In this talk we will construct subalgebras with detect the relative cohomology of g with respect to g_0 through the use of invariant theory. This will allow us to define rank varieties and develop a theory of support varieties for modules over the Lie superalgebra. Later in the talk, we will indicate how these varieties provide a geometric interpretation of the combinatorial description of the defect of g and the atypicality of simple g -supermodules due to Kac and Wakimoto.

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MATHEMATICS AND COMPUTER SCIENCE
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