



UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

COLLOQUIUM

Dr. Irfan Bagci
(UCR)

"Representations, cohomology and support varieties"

Abstract:

Support varieties or cohomological varieties have been introduced into representation theory almost 30 years ago and they provide an interesting bridge between representation theory and commutative algebra. These varieties were first defined for modules over finite groups by Carlson in the early 1980's and have been a key to learning more about the representation theory of finite groups. The theory of support varieties was later extended to the restricted Lie algebras by Friedlander and Parshall. Recently I have generalized the work of Friedlander and Parshall to restricted Lie superalgebras. In this talk we will discuss the use of cohomology and support varieties in representation theory.

Wednesday, January 18th, 2011

Surge 284

4:10-5:00pm

Tea Time at 3:40pm