
THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Algebraic Geometry and Representation Theory Seminar

Room 155 ,Ziskind Building
on Tuesday, Mar 03, 2020at 11:15

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Multiplicities for $DS(L)$ in osp-type.

Abstract:

The Duflo-Serganova functor is a cohomology functor relating representation theory of Lie superalgebras of different ranks.

This is a tensor functor preserving superdimension.

Serganova conjectured that the image of a finite-dimensional simple module L under Duflo-Serganova functor is semisimple. Heidersdorf and Weissauer established this conjecture for gl -case and described $DS(L)$. In my previous talk I sketched a proof of semisimplicity for osp-type. In this talk I will explain how to compute the multiplicities in $DS(L)$.

This is a joint project with Thorsten Heidersdorf.