Abstract:

The Dulfo-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 Dulfo-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 multiplicity in DS(L). This is a joint project with Thorsten Heidersdorf.