

Algebra Seminar

Mr. Caio De Naday Hornhardt

Wednesday, February 28, 2018
HH-3017, 1:00p.m.

Group gradings on the simple Lie superalgebras $A(n, n)$

Abstract:

In a recent paper, we have classified abelian group gradings on the matrix superalgebras $M(m, n)$. These restrict to the so called Type I gradings on the special linear Lie superalgebra $sl(m|n)$ (or its quotient by the center in the case $m=n$). In this talk, we will discuss a strategy to find the remaining gradings on special linear Lie superalgebras, that is, Type II gradings. We will focus on the case $m=n$, which admits what we call odd Type II gradings.