

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : 汪永杰 博士 Dr. Yongjie Wang
(National Center for Theoretical Sciences)

Title : *Central Extensions of Matrix Lie Superalgebras*

Abstract : In this talk, we will discuss the universal central extensions of two families of matrix Lie superalgebras coordinatized by associative superalgebras with superinvolution, namely, generalized periplectic Lie superalgebras and generalized orthosymplectic Lie superalgebras. The key ingredient is that the second homology group of a generalized periplectic (resp. orthosymplectic) Lie superalgebra is identified with $\mathbb{Z}/2\mathbb{Z}$ the \mathbb{Z} -graded dihedral (resp. skew-dihedral) homology group of its coordinates superalgebra in most cases. We will also discuss the universal central extensions of a few matrix Lie superalgebras (usually involving matrices of small dimension) on which the identifications above fail.

The talk is based on the joint work with Zhihua Chang.

Time : 11:00 – 12:30, Wednesday, March 15, 2017

Venue : **Room 201**, Astro-Math. Buidling (NTU Campus)

Organizer : Yu-Yen Chien (NCTS), Jyun-Ao Lin (Academia Sinica)

中央研究院數學研究所 敬上

2017.03.10