

GCOE Lectures

GLOBAL COE PROGRAM

The Research and Training Center for New Development in Mathematics

DATE October 7 (Wed) & 9 (Fri), 2009, 16:30–17:30

PLACE Room 128, Graduate School of Mathematical Sciences

SPEAKER **Michel Duflo** (Paris 7)

TITLE Lecture 1. Representations of classical Lie super-algebras

Lecture 2. Associated varieties for Representations of classical Lie super-algebras

ABSTRACT Lecture 1. In this lecture, I'll survey classical topics on finite dimensional representations of classical Lie super-algebras, in particular the notion of the degree of atypicality.

Lecture 2. In this lecture, I'll discuss the notion of “Associated varieties for Representations of classical Lie super-algebras (joint work with Vera Serganova)” and the relation with the degree of atypicality. This is related to a conjecture of Kac and Wakimoto.

ORGANIZER Toshiyuki Kobayashi (Tokyo)