

# 16th Workshop on Representation Theory of Algebraic Groups and Quantum Groups

**Date** : June 2 (Sun) – June 5 (Wed), 2013

**Place** : Goura Seiunsou

1320, Goura, Hakone-town, Ashigarasimo-gun, Kanagawa 250-0408, Japan

Tel : 0460-82-3591

URL : <http://www9.ocn.ne.jp/~seiunsou/>

## Program

### June 2 (Sun)

16:00 – 17:00 Takeshi Ikeda (Okayama University of Science)

A proof of the K-theoretic Littlewood-Richardson rule

17:15 – 18:15 Taiki Shibata (University of Tsukuba)

Algebraic Supergroups over a PID

### June 3 (Mon)

9:30 – 10:30 Michio Jimbo (Rikkyo University)

Representations of the  $\mathfrak{gl}_n$  quantum toroidal algebras: an elementary approach, I

11:00 – 12:00 Yuji Tachikawa (University of Tokyo)

Supersymmetric gauge theories and nilpotent orbits, I

13:15 – 14:15 Kentaro Wada (Shinsyu University)

A quantum Frobenius map and tensor product theorem for cyclotomic  $q$ -Schur algebras

14:30 – 15:30 Masahide Konishi (Nagoya University)

A classification of cyclotomic KLR algebras of type  $A_n^{(1)}$

16:00 – 17:00 Kazuyuki Oshima (Aichi Institute of Technology)

The Elliptic Quantum Algebra  $U_{q,p}(B_N^{(1)})$  and Vertex Operators

17:15 – 18:15 Yosuke Saito (Tohoku University)

Elliptic Ding-Iohara algebra and the commutative family of the elliptic Macdonald operator

## June 4 (Tue)

9:30 – 10:30 Michio Jimbo (Rikkyo University)

Representations of the  $\mathfrak{gl}_n$  quantum toroidal algebras: an elementary approach, II

11:00 – 12:00 Yuji Tachikawa (University of Tokyo)

Supersymmetric gauge theories and nilpotent orbits, II

13:45– 14:45 Takahide Adachi (Nagoya University)

$\tau$ -tilting modules over Nakayama algebras

15:15 – 16:15 Yuya Mizuno (Nagoya University)

$\tau$ -tilting modules over preprojective algebras of Dynkin type

16:45 – 17:45 Gustavo Jasso (Nagoya University)

Reduction of  $\tau$ -tilting modules and torsion pairs

## June 5 (Wed)

9:30 – 10:30 Liu Yu (Nagoya University)

Hearts of twin cotorsion pairs on exact categories

11:00 – 12:00 Hiroyuki Yamane (Toyama University)

Universal  $R$ -matrix of a generalized quantum group