

Mathematical Society of Japan - 10th International Research Institute

**Representation Theory of
Algebraic Groups and Quantum Groups**

DATE: August 1 – 10, 2001

PLACE: Sophia University, Tokyo, Japan

PROGRAM

August 1 (Wednesday)

- 13:45 – 14:45 **T. Tanisaki**
Highest weight modules over affine Lie algebras
- 15:00 – 16:00 **K. Saito**
Elliptic Lie groups
- 16:30 – 17:30 **S. -J. Kang**
Quantum groups and crystal bases

August 2 (Thursday)

- 10:00 – 11:00 **S. -J. Kang**
Perfect crystals and Young walls
- 11:15 - 12:15 **A. Zelevinsky**
An introduction to cluster algebras
- 13:45 - 14:45 **M. Broué**
Families of characters of cyclotomic Hecke algebras
- 15:00 - 16:00 **N. Xi**
A property of distinguished involutions in an affine Weyl
group of type \tilde{A}_n
- 16:30 - 17:30 **S. Ariki**
The representation type of Hecke algebras of type B

August 3 (Friday)

- 10:00 - 11:00 **S. -J. Kang**
Fock space representation of quantum affine algebras
- 11:15 - 12:15 **H. Nakajima**
Quiver varieties and quantum affine algebras, I
- 13:45 - 14:45 **M. Kashiwara**
On semisimple holonomic module conjecture