

数学

数理解析研究所講究録765

短期共同研究

Combinatorial Aspects in
Representation Theory and Geometry

禁帶出期間

3.9.04-9.11

数研図書室

京都大学数理解析研究所

1991年8月



短期共同研究

Combinatorial Aspects in Representation Theory and Geometry

1990年 9月5日～ 9月8日

研究代表者 松澤 淳一 (Jun-ichi Matsuzawa)

目 次

1. On the Extended Affine Root System-----	1
Kyoto Univ.	Kyoji Saito
Kyoto Univ.	Ikuo Satake
2. Kummer Surface with D_4 -Symmetry-----	35
Kyoto Univ.	Isao Naruki
3. Dynkin graphs and combinations of singularities on some algebraic varieties-----	38
Tokyo Metropolitan Univ.	Tohsuke Urabe
4. Torelli theorem for certain rational surfaces and root system of type A -----	47
Kyoto Univ.	Jun-ichi Matsuzawa
5. The ranges of Radon transforms-----	52
Kyoto Univ.	Tomoyuki Kakehi
Kyoto Inst. of Technology	Chiaki Tsukamoto
6. Finite size approximation for representations of $U_q(\mathfrak{sl}(n))$ -----	62
Kyoto Univ.	Michio Jimbo
7. A decomposition of the adjoint representation of $U_q(\mathfrak{sl}_2)$ -----	66
Tokyo Univ. of Mercantile Marine	Susumu Ariki
8. A remark on semisimple elements in $U_q(\mathfrak{sl}(2; \mathbb{C}))$ -----	71
Univ. of Tokyo	Masatoshi Noumi
9. Crystal Graph and Littlewood Richardson rule-----	79
Kyoto Univ.	Toshiki Nakashima
10. A multivariable quantum determinant over a commutative ring-----	91
Univ. of Tokyo	Hiroyuki Tagawa
11. DIFFERENTIAL POSETS-----	104
M.I.T.	Richard P. Stanley
12. Relative invariants of the polynomial rings over the finite and tame type quivers-----	109
Aoyama Gakuin Univ.	Kazuhiko Koike
13. On an affine space partition of the variety of N -stable flags and a generalization of the length-MAJ symmetry-----	126
Univ. of Tokyo	Itaru Terada