

The 9th Japan-Korea School of Knots and Links

January 14 - 17, 2001

Conference Room of Graduate School of Human Culture
(5-th floor of Building F)
Nara Women's University

Organizing Committee:

Mitsuyuki Ochiai (Nara Women's Univ.),
Gyo Taek Jin (Korea Advanced Inst. Sci. Tech.),
Ki Hyoung Ko (Korea Advanced Inst. Sci. Tech.),
Tsuyoshi Kobayashi (Nara Women's Univ.)

PROGRAM (1/14)

January 13 (Sunday)

15:00– Registration
17:00– Welcome Party

January 14 (Monday)

MORNING SESSION

9:20–10:20 **Ko Ki Hyoung** (Korea Advanced Inst. Sci. Tech.)
Introduction to braid cryptography

10:30–11:15 **Cho Mi Sung** (Korea Advanced Inst. Sci. Tech.)
Provably secure braid cryptosystems

11:25–12:25 **Matsuoka Takashi** (Naruto Univ. of Education)
Braid invariant and topological index for periodic points of surface homeomorphisms

AFTERNOON SESSION

13:45–14:30 **Kim Hun** (Korea Advanced Inst. Sci. Tech.)
Pseudo Trivial Laces

14:45–15:30 **Song Won Taek** (Korea Advanced Inst. Sci. Tech.)
The Lawrence-Krammer representation is unitary

16:00–16:45 **Noda Takeo** (Tokyo Univ.)
On Bennequin's inequality (1)

17:00–17:45 **Noda Takeo** (Tokyo Univ.)
On Bennequin's inequality (2)

January 15 (Tuesday)

MORNING SESSION

9:10–10:10 **Suzuki Masaaki** (Tokyo Univ.)
On the Magnus representation of the mapping class group

10:20–11:20 **Cha Jae Choon** (Korea Advanced Inst. Sci. Tech.)
A survey on link concordance

11:30–12:15 **Satoh Shin** (RIMS)
Triple point numbers and cocycle invariants of surface-knots

AFTERNOON SESSION

14:15–15:15 **Kamada Seiichi** (Osaka City Univ.)
A generalization of knots and braids

15:45–16:30 **Jeong Myeong-Ju** (Kyungpook National Univ.)
Twist Moves and Delts-moves (Joint with Park Chan-Young)

16:45–17:30 **Lee Sang Youl** (Pusan National Univ.)
3-moves and invariants of 4-regular graphs in R^3

18:30–20:30 **PARTY (Student Union)**

January 16 (Wednesday)

MORNING SESSION

9:20–10:20 **Murakami Jun** (Waseda Univ.)
Quantum invariants and mapping class groups

10:30–11:15 **Huh Youngsik** (Samsung Adv Inst Tech.)
Lattice stick numbers of small knots

11:25–12:10 **Song Hyun Jong** (Pukyong National Univ.)
Morimoto-Sakuma-Yokota's geometric approach to tunnel number one knots

AFTERNOON SESSION

13:30–14:30 **Saito Toshio** (Osaka Univ.)
An introduction of lectures by M. Scharlemann and J. Schultens
on generalized Heegaard splittings

14:45–15:30 **Kadokami Teruhisa** (Osaka City Univ.)
On the additivity of 3-dimensional clasp numbers

16:00–16:45 **Lee Sangyop** (Korea Advanced Inst. Sci. Tech.)
Toroidal Dehn surgeries on knots in the real projective space
(Joint with Oh Seungsang & Teragaito Masakazu)

17:00–17:45 **Oh Seungsang** (Chonbuk National Univ.)
Dehn fillings and small surfaces
(Joint with Oh Seungsang & Teragaito Masakazu)

January 17 (Thursday)

MORNING SESSION

9:20–10:20 **Jin Gyo Taek** (Korea Advanced Inst. Sci. Tech.)
Superbridge index of knots

10:30–11:15 **Bae Yongju** (Kyungpook National Univ.)
Arc index via the alternating tangle decomposition

11:25–12:25 **Matsumoto Yukio** (Tokyo Univ.)
Word representation of embedded curves in the plane (Joint work with S.Kamada)