

Intelligence of Low Dimensional Topology in honor of Professor Kunio Murasugi's 80th birthday

November 12 - November 14, 2009

Place: 10th floor, Media Center, Osaka City University (Sugimoto Campus)

Access: <http://www.osaka-cu.ac.jp/english/info/access.html>

Campus map: <http://www.osaka-cu.ac.jp/english/info/campusmap.html>

Program

==== November 12 (Thu.) ====

13:20–14:00 Kunio Murasugi (University of Toronto)

Metabelian representations of knot groups and twisted Alexander polynomials (joint work with Mikami Hirasawa)

14:10–14:50 Ryosuke Yamamoto (Ritsumeikan University)

On the Alexander polynomial of open books

15:20–16:00 Takahiro Kitayama (University of Tokyo)

Non-commutative Reidemeister torsion and Morse-Novikov theory

16:10–16:50 Andrei Pajitnov (Université de Nantes)

Circle-valued Morse theory and tunnel number of knots

==== November 13 (Fri.) ====

10:10–10:50 Tetsuya Ito (University of Tokyo)

New braid index estimation via Dehornoy floor

11:00–11:40 Masahide Iwakiri (OCAMI, Osaka City University)

Surface-links represented by 4-charts and quandle trivial 1-handle surgeries

13:20–14:00 Atsushi Ishii (University of Tsukuba)

On a normalization of a regular isotopy invariant for spatial graphs

14:10–14:50 Ryo Hanaki (Waseda University)

Pseudo diagrams of knots and its related topics

15:20–16:00 Ryo Nikkuni (Tokyo Woman's Christian University)

Classification of spatial complete graphs on four vertices up to C_5 -moves (joint work with Akira Yasuhara (Tokyo Gakugei University))

16:10–16:50 Kunio Murasugi (University of Toronto)

Reflection on my life as a mathematician

=== November 14 (Sat.) ===

10:10–10:50 Kazuhiro Ichihara (Nara University of Education)

On exceptional surgeries on Montesinos knots (joint work with In Dae Jong (Osaka City University) and Shigeru Mizushima (Tokyo Institute of Technology))

11:00–11:40 Ikuo Tayama (Osaka City University)

Enumerating homology spheres with lengths up to 10 by a canonical order (joint work with Akio Kawauchi)

13:20–14:00 Toshie Takata (Niigata University)

On the $SO(N)$ and $Sp(N)$ free energy of a closed oriented 3-manifold

14:10–14:50 Takuji Nakamura (Osaka Electro-Communication University)

Notes on virtual knots whose polynomial invariant is trivial

15:20–16:00 Thang Le (Georgia Institute of Technology)

Torsion growth, Mahler measure and hyperbolic volume

16:10–16:50 Makoto Sakuma (Hiroshima University)

Epimorphisms between 2-bridge link groups : essential simple loops on 2-bridge spheres which are null-homotopic in 2-bridge link complements (joint work with Donghi Lee)

Organizers: Taizo Kanenobu, Seiichi Kamada

(Committee: Akio Kawauchi, Toshitake Kohno, Taizo Kanenobu, Seiichi Kamada)

web: <http://www.math.sci.hiroshima-u.ac.jp/top/conf/ildt2009/ildt2009E.html>

A party will take place at 17:30-19:30, November 13 (Fri.), on the 1st floor, Media Center, Osaka City University. All participants to the party should register in advance by email at iwakiri @ sci.osaka-cu.ac.jp

by October 31, 2009. (The fee is 5000JPY)

==Registration Form (Foreign participants) ==

I'm participating in the party on November 13, 2009.

(1) Name:

(2) Affiliation, country:

(3) E-mail:

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If you cancel, please let us know as soon as possible, by October 31.