

# Intelligence of Low Dimensional Topology

November 16 - November 19, 2003

in Shodo-Shima, Japan

This is a conference taking place at Kokumin-kyuka-mura in Shodo-Shima as a part of the research project “Constitution of wide-angle mathematical basis focused on knots”.

Organizers: Akio Kawauchi (Osaka City University),  
Toshitake Kohno (University of Tokyo),  
Seiichi Kamada (Hiroshima University)

Schedule:

•**November 16** Reception

•**November 17**

- 9:00-10:00 Masaharu Ishikawa (Tokyo Institute of Technology)  
On positive open book decompositions of 3-manifolds
- 10:10-11:10 Sadayoshi Kojima (Tokyo Institute of Technology)  
Circle Packings and Uniformization
- 11:20-12:00 Makoto Sakaguchi (OCAMI, Osaka City University)  
Dirichlet Branes in AdS Backgrounds
- 13:20-14:00 Hiroyuki Yashima (University of Tokyo)  
Geometric embedding between two reflection arrangements
- 14:10-14:50 Takuji Nakamura (OCAMI, Osaka City University)  
On the canonical genus of knots
- 15:20-16:00 Fumikazu Nagasato (Kyushu University: JSPS)  
The minimal relation in the Kauffman bracket skein module of the  $m$ -twist knot (with Razvan Gelca)
- 16:10-16:50 Teruhisa Kadokami (OCAMI, Osaka City University)  
Reidemeister torsion of homology lens spaces
- 17:00-17:40 Makoto Ozawa (Natural Science Faculty, Faculty of Letters, Komazawa University)  
Primitive spatial graphs and graph minors

•November 18

- 9:00 - 10:00 Scott Carter (Univ. of South Alabama) and Masahico Saito (Univ. of South Florida)  
Generalizations of quandle cocycle invariants and Alexander modules from quandle modules
- 10:10-11:10 Toshitake Kohno (University of Tokyo)  
Homology of loop spaces and finite type invariants
- 11:20-12:00 Atsushi Kamita (OCAMI, Osaka City University)  
Universal generalized Verma modules and  $b$ -functions
- 13:20-14:00 Tsukasa Yashiro (Osaka City University: JSPS)  
On cross-exchangeable cycles of surface diagrams
- 14:10-14:50 Akio Noguchi (Tokyo Institute of Technology)  
Alexander polynomials and Weil conjecture
- 15:20-16:00 Atsushi Ishii (Osaka University)  
The Links-Gould invariants of the Kanenobu knots
- 16:10-16:50 Tetsuhiro Moriyama (University of Tokyo: JSPS)  
Casson invariant and signature
- 17:00-17:40 Yoko Mizuma (Tokyo Institute of Technology)  
On the Jones polynomials of ribbon knots of 1-fusion

•November 19

- 9:00-10:00 Daniel Matei (University of Tokyo)  
Finite solvable representations of knot groups
- 10:10-11:10 Tomotada Ohtsuki (RIMS, Kyoto University)  
A cabling formula for the 2-loop polynomial of knots

URL : <http://www.math.sci.hiroshima-u.ac.jp/top/conf/ildt2003/ildt2003E.html>