Intelligence of Low Dimensional Topology

October 25 - October 27, 2004

in Osaka, Japan

This is a conference taking place at Osaka City University in Osaka, Japan 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:

·October 25

10:10-11:00   Teruaki Kitano (Tokyo Institute of Technology)

On twisted Alexander invariants for knots

11:10-12:00   Sérgio R. Fenley (Florida State University, Tallahassee, Florida, USA)

Laminar free hyperbolic 3-manifolds

13:30-14:10   Teruhisa Kadokami (OCAMI, Osaka City University)

Surface bracket polynomial and supporting genus of virtual knots

14:10-14:50   Takuji Nakamura (OCAMI, Osaka City University)

Braidzel surface and the Alexander polynomial

15:30-16:10   Takuya Sakasai (University of Tokyo)

Homology cylinders and the acyclic closure of the free group

16:10-16:50   Yuuki Tadokoro (University of Tokyo)

Iterated integrals and harmonic volumes of compact Riemann surfaces

·October 26

10:10-11:00 Kazuhiro Hikami (University of Tokyo)

Asymptotic behavior of the WRT invariant and the modular form

11:10-12:00 Gregor Masbaum （Institut de Mathématiques de Jussieu, Paris, France）

Integral lattices in TQFT

13:30-14:10 Yasuyuki Miyazawa (Yamaguchi University)

Magnetic graphs and an invariant for virtual knots

14:10-14:50 Ryo Nikkuni (Waseda University (JSPS Fellow))

On the knotted projections of spatial graphs

15:30-16:10 Ikuo Tayama (Osaka City University)

Enumerating prime links by a canonical order

16:10-16:50 Atsushi Ishii (Osaka University)

The $LG^{m,1}$ invariants and the Alexander-Conway polynomial (joint work with D. De Wit and J. Links)

·October 27

10:10-11:00 Hiroshi Itoyama (Osaka City University)

An introduction to string theory

11:10-12:00 Alexander Stoimenov (JSPS)

The second coefficient of the Jones polynomial

13:30-14:10 Ichiro Torisu (Akita University)

Classification of transverse knots to a contact structure

14:10-14:50 Kazuyuki Kuwako (University of Tokyo)

Dehn surgery creating Klein bottles

15:30-16:10 Tatsuya Tsukamoto (Waseda University)

Derivation on links, the Conway polynomial, and the linking pairing (joint work with A. Yasuhara)

16:10-16:50 Isao Hasegawa (University of Tokyo)

Non-ribbon surface braids whose closures are ribbon

URL：http://www.math.sci.hiroshima-u.ac.jp/top/conf/ildt2004/ildt2004E.html