

KNOTS in WASHINGTON XV

Japan - USA Workshop in Knot Theory II, January 10-15, 2003

The first part of the conference (10-12 Jan.) will take place at George Washington University (Funger Hall 208) in Washington DC (few blocks from the White House and Smithsonian Museums). The second part of the conference (13-14 Jan.) will take place at the Homewood Campus of Johns Hopkins University, (205 Krieger), near 33rd and Charles, Baltimore.

We plan several survey talks - 50 minutes long, and 20-30 minute long research talks. We will start the conference on Friday, January 10, 6:00pm in Funger Hall, GWU, with a talk by Ted Stanford :

"Finite-type invariants based on doubled-delta moves"

The workshop will take place just before the Annual Meeting of the American Mathematical Society in Baltimore, M.D., Jan. 15-18, 2003.

Friday Jan 10: GWU, Funger Hall (2201 G Street, NW) Room 208, 5:45 - 7:45:

5:45 - 6:15 coffee and refreshments

6:15 - 7:05 Ted Stanford (stanford@nmsu.edu)
Finite-type invariants based on doubled-delta moves

7:15 - 7:45 Khaled Bataineh (kbataine@nmsu.edu)
Geometric Invariants for Knots in the Solid Torus

Saturday Jan 11 (GWU, Funger 208) 10:00 - 7:00

10:00 - 10:30 coffee and refreshments

10:30 - 11:00 Jeff Johannes (johannes@geneseo.edu)
Determining the number of components of a link from its planar graph.

11:10 - 11:40 Toru Ikeda, (ikedator@med.kochi-ms.ac.jp)
Finite Group Actions on Partially Peripheral 3-Manifolds

11:50 - 12:20 Kouki Taniyama (taniyama@mn.waseda.ac.jp)
On the sum of external angles of a convex polyhedron

12:30 - 12:50, 12:50 - 1:10 M. Dabkowski and A.Togha (mdab@gwu.edu,
user1d@gwu.edu) Non-left-orderable 3-manifold groups; I and II

Lunch break (1:10 - 3:30)

3:30 - 4:00 Tatsuya Tsukamoto (tsuka@tkg.att.ne.jp) TBA

4:10 - 4:40 Paul Kainen (kainen@georgetown.edu)
On Zarankiewicz's conjecture regarding the crossing number of $K_{p,q}$

4:50 - 5:20 Marta Asaeda (marta@math.umd.edu)
Fusion Rules of orbifold systems

5:40 - 6:10 Freydoon Rahbarnia (RAHBAR@math.um.ac.ir)
Knots and Graphs

6:20 - 6:50 Jae Choon Cha (jccha@indiana.edu)
Concordance and rational knots

Sunday Jan 12 (GWU) 10:00 - 7:00

10:00 - 10:30 coffee and refreshments

10:30 - 11:00 Aaron Heap (amheap@math.rice.edu)
Bordism Invariants of the Mapping Class Group

11:10 - 11:40 Joanna Kania-Bartoszyńska (kania@diamond.boisestate.edu)
Turaev-Viro invariant and spinal surfaces in a 3-manifold

11:50 - 12:20 Thomas Mattman (TMattman@csuchico.edu)
Exceptional surgery and boundary slopes

12:30 - 1:00 Gefry Barad (Gefryg@aol.com)
Genome rearrangements and algebraic geometry

Lunch break (1:00 - 3:00)

3:00 - 3:30 Taehee Kim (kimth@indiana.edu)
New obstructions for doubly slicing knots

3:40 - 4:10 Charilaos Aneziris (aneziris@yahoo.com)
The Tabulation of Links

4:20 - 4:50 Akira Yasuhara (yasuhara@u-gakugei.ac.jp)
Linking numbers in rational homology 3-spheres, cyclic branched covers and infinite cyclic covers

5:00 - 5:30 Louis Zulli (zullil@lafayette.edu)
An Extension of the Jones Polynomial of Classical Knots

5:50 - 6:20 Laure Helme-Guizon (lhelmeg@gwu.edu, lhelmeg@yahoo.com)
Approximating the coefficients of the HOMFLY polynomial by Vassiliev invariants

6:30 - 7:00 Dough Bullock (bullock@math.boisestate.edu) TBA

Monday Jan 13 (Evening session; JHU, 205 Krieger) 3:45 - 9:00

3:45pm - 4:15 coffee and refreshments

4:15 - 5:05 Ruth Lawrence (ruthel@sundial.ma.huji.ac.il)
Some computations of Ohtsuki series for 3-manifolds

5:15 - 5:45 Jozef H. Przytycki (przytyck@gwu.edu)
Action of braid groups related to double branched covers

5:50 - 6:20 Michael McLendon (mmclendon2@washcoll.edu)
Detecting torsion in skein modules using Hochschild homology

6:30 - 7:00 Abhijit Champanerkar (abhijit@cpw.math.columbia.edu)
The next simplest hyperbolic knots

7:10 - 7:40 Daniel Matei (matei@ms.u-tokyo.ac.jp)
Homology of finite cyclic coverings of links and Massey products

7:50 - 8:20 Cynthia McCabe (cmccabe@uwsp.edu)
Constructing Algebraic Links and Tangles for Low Edge Numbers

8:30 - 9:00 Ofer Ron (oferron@pob.huji.ac.il)
Braid group representations from hyperplane arrangements

Tuesday Jan 14 (JHU) 11:00am - 7:50pm

10:30 - 11:00 coffee and refreshments

11:00 - 11:50 Pat Gilmer (gilmer@math.lsu.edu)
Integral bases for TQFT Modules

12:00 - 12:30 Slava Krushkal (vk6e@weyl.math.virginia.edu)
4-manifolds, slice links, and Dwyer's filtration

12:40 - 1:30 Uwe Kaiser (kaiser@diamond.boisestate.edu)
Deformation of string topology and skein modules of oriented 3-manifolds

Lunch break (1:30 - 3:30)

3:30 - 4:20 W. LoFaro (wlofaro@uwsp.edu)
Computing Kauffman Bracket Skein Modules

4:30 - 5:00 Nikolai Ivanov (ivanov@math.msu.edu)
A new construction of the Kauffman polynomial

5:10 - 5:40 John Robert Armstrong (john.armstrong@math.yale.edu)
Representations of Tangle Categories and the Bracket Polynomial

6:00 - 6:50 Rama Mishra (rama@maths.iitd.ernet.in)
Polynomial representation of knots

7:00 - 7:50 Elmar Winkelkemper (hew@math.umd.edu)
AP Theory: A Discrete, Purely Group Theoretic TOE

Organizers:

Kazuaki Kobayashi (kazuaki@twcu.ac.jp), TWCU, Tokyo, Japan
Jozef H.Przytycki (przytyck@gwu.edu), GWU, Washington D.C., USA
Yongwu Rong (rong@gwu.edu), GWU, Washington D.C., USA
Shin-ichi Suzuki (ssuzuki@mn.waseda.ac.jp), Waseda University
Kouki Taniyama (taniyama@mn.waseda.ac.jp), Waseda University
Tatsuya Tsukamoto (tsuka@tkg.att.ne.jp), Waseda University
Akira Yasuhara (yasuhara@u-gakugei.ac.jp), Tokyo Gakugei University

<http://home.gwu.edu/~przytyck/knots/index.html>

<http://faculty.web.waseda.ac.jp/taniyama/Knots-in-Washington/Knots-in-Washington-15.html>

Abstracts.

You can submit your abstract at
<http://at.yorku.ca/cgi-bin/amca/submit/cajr-01>
and view submitted abstracts at
<http://at.yorku.ca/cgi-bin/amca/cajr-01>