Workshop

Mapping class groups, TQFT and invariants of 3-manifolds —Constructions and Computations—

February 15-17, 2010

Room 213, Main Building of Ookayama Campus, Tokyo Institute of Technology

Schedule

Monday, February 15

9:50–10:00 Opening

10:00–11:00 Takuya Sakasai (Tokyo Institute of Technology)
    Johnson-Morita homomorphisms and homological fibered knots

11:20–12:20 Gwénaël Massuyeau (University of Strasbourg)
    (I) On the monoid of homology cylinders and the LMO homomorphism

12:20–14:00 Lunch

14:00–15:00 Yuichi Kabaya (OCAMI)
    Quandle homology, hyperbolic volume and Chern-Simons invariant

15:30–16:30 Tomoyoshi Yoshida (Tokyo Institute of Technology)
    A construction of a basis of conformal block of SU(2) WZW model and its asymptotic behaviour

Tuesday, February 16

10:00–11:00 Mitsuhiko Takasawa (Tokyo Institute of Technology)
    Bounds for minimal dilatations of pseudo-Anosovs

11:20–12:20 Takahito Kuriya (RIMS)
    (I) The LMO invariant and related topics

12:20–14:00 Lunch

14:00–15:00 Alex Bene (IPMU)
    (I) Fatgraphs, chord diagrams, and the mapping class group

15:30–16:30 Gwénaël Massuyeau (University of Strasbourg)
    (II) An infinitesimal version of Morita's homomorphisms

17:00–18:00 Jérôme Petit (Tokyo Institute of Technology)
    The Turaev-Viro HQFT

Banquet

Wednesday, February 17

11:00-12:00 Toshie Takata (Niigata University)
    On the SO(N) and Sp(N) free energy of a closed oriented 3-manifold

12:00–14:00 Lunch

14:00–15:00 Takahito Kuriya (RIMS)
    (II) The LMO invariant and related topics

15:20–16:20 Alex Bene (IPMU)
    (II) Fatgraphs, chord diagrams, and finite type invariants of homology cylinders

16:20–16:30 Ending

(Last modified: February 15)