Four Dimensional Topology

November 7 – November 9, 2011
Hiroshima University

Program

November 7 (Mon)

14:00–14:40   Takefumi Nosaka (RIMS, Kyoto University)
Quandle cocycle invariants of Lefschetz fibrations over the 2-sphere

14:50–15:30   Naoyuki Monden (Osaka University)
On stable commutator length in hyperelliptic mapping class groups

15:50–16:30   Yasuyoshi Tsutsumi (Oshima National College of Maitime Technology)
Negativity of the Lescop invariants of the Brieskorn-Hamm manifolds

16:40–17:10   Tsuyoshi Uno (Tokyo Gakugei University)
Sheet number and 11-colorable 2-knot

17:20–17:50   Yuma Taniguchi (Tokyo Gakugei University)
Interpretations of rack coloring link invariants in terms of quandles

November 8 (Tue)

09:10–09:50   Kouichi Yasui (Hiroshima University)
Exotic 4-manifolds with boundary, minimal genera and Stein fillable 3-manifolds

10:00–10:40   Noriyuki Hamada (Kyushu University)
Upper bounds for the minimal number of singular fibers in a Lefschetz fibration over the torus

11:00–11:40   Sosuke Ashihara (Hiroshima University)
The fundamental biquandles of twist spun trefoils

11:50–12:30   Teruo Nagase and Akiko Shima (Tokai Unverisity)
4-charts with four crossings

14:00–14:50   Akio Kawauchi (Osaka City University)
2-knots in the stable 4-space

15:00–15:50   Jonathan A. Hillman (University of Sydney)
S^2-bundles over 2-orbifolds

16:10–17:00   Nobuhiro Nakamura (The University of Tokyo)
The genus of nonorientable embedded surfaces in 4-manifolds

17:10–17:50   Kanako Oshiro (Japan Women's University)
Minimal numbers of colors for surface-knots and quandle cocycle invariants
(joint work with Shin Satoh)

November 9 (Wed)

09:10–09:50   Yoshiro Yaguchi (Hiroshima University)

Hurwitz equivalence on simple braid systems

10:00–10:40   Tetsuya Abe (RIMS, Kyoto University)

On the shake genus and sliceness of a knot

11:00–11:40   Masatoshi Sato (Osaka University)

Four-manifolds admitting hyperelliptic simplified broken Lefschetz fibrations

13:00–13:40   Motoo Tange (RIMS, Kyoto University)

A plug for knot surgery

13:50–14:30   Takao Matumoto (Hiroshima University)

On the smooth unknotting conjecture in dimension four VII

Organizers:

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