Four Dimensional Topology

January 18 – January 20, 2010
Hiroshima University

Program

January 18 (Mon)

14:00–14:40 Osamu Saeki (Kyushu University)
Special generic maps on open 4-manifolds

15:10–15:50 Hiroshi Iritani (Kyushu University)
Topology of Landau-Ginzburg model

16:00–16:40 Kouichi Yasui (Kyoto University, RIMS)
Applications of Stein 4-manifolds to corks (joint work with Selman Akbulut)

January 19 (Tue)

9:10–9:50 Takefumi Nosaka (Kyoto University, RIMS)
On homotopy groups of quandle spaces and the quandle homotopy invariant of links

10:00–10:40 Kokoro Tanaka (Tokyo Gakugei University)
Studies on surface-knots using quandle theory

10:50–11:30 Ayumu Inoue (Tokyo Institute of Technology)
A formula for volumes and Chern-Simons invariants of link complements via quandle shadow colorings (joint work with Yuichi Kabaya)

13:10–13:50 Akio Kawauchi (Osaka City University)
Rational-slice knots via strongly negative-amphicheiral knots

14:00–14:40 Inasa Nakamura (University of Tokyo)
Unknotting the spun T^2-knot of a classical torus knot

15:10–15:50 Seiichi Kamada (Hiroshima University)
Symmetric quandles and surface-knots

16:00–16:40 Kanako Oshiro (Hiroshima University)
Symmetric quandle invariants and its application for triple point numbers of surface-links

January 20 (Wed)

9:10–9:50 Nobuhiro Nakamura (University of Tokyo)
Smoothability of $\mathbb{Z} \times \mathbb{Z}$-actions on 4-manifolds

10:00–10:40 Yoshihisa Sato (Yamaguchi University)
The canonical classes and the geography of non-minimal Lefschetz fibrations

10:50–11:30 Takao Matumoto (Hiroshima University)
On the unknotting conjecture in dimension four V

Organizers:
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