

Four Dimensional Topology

November 25 – November 27, 2016

Room E408, Department of Mathematics, Osaka City University

Program

November 25 (Fri)

13:30–14:10 Naohiko Kasuya (Aoyama Gakuin University)
Non-Kaehler complex structures on R^4
(joint work with Antonio J Di Scala and Daniele Zuddas)

14:25–14:55 Takahiro Oba (Tokyo Institute of Technology)
Inequivalent higher-dimensional Lefschetz fibrations from the 4-dimensional point of view

15:10–15:50 Shigeru Takamura (Kyoto University)
Families of quotient families

16:05–16:35 Kouki Sato (Tokyo Institute of Technology)
A full-twist formula for ν_+ invariant

16:50–17:30 Akiko Shima (Tokai University)
The structure of a minimal chart with two crossings
(joint work with Teruo Nagase)

17:45–18:25 Shin Satoh (Kobe University)
Fundamental deformations on unwrithed surface-knots

November 26 (Sat)

09:30–10:00 Hokuto Konno (The University of Tokyo)
Complex of surfaces violating the adjunction inequalities

10:15–10:45 Yuya Kato (The University of Tokyo)
Nonsmoothable actions on spin four-manifolds

11:00–11:30 Mizuki Fukuda (Tohoku University)
Distinguishing branched twist spins by knot determinants

11:45–12:25 Celeste Damiani (Osaka City University)
Alexander invariants for ribbon tangles and circuit algebras
(joint work with Vincent Florens)

14:10–14:50 Seiichi Kamada (Osaka City University)
Classifying 1-handles attached to surface-links via quandles

15:05–15:45 Inasa Nakamura (The University of Tokyo)
Unbraiding 2-dimensional braids by an addition of 1-handles with chart loops

16:00–16:40 Jieon Kim (Osaka City University)
On marked graph diagrams of immersed surface-links
(joint work with Seiichi Kamada and Akio Kawauchi)

16:55–17:25 Hironobu Naoe (Tohoku University)
On homology 4-balls with shadow complexity zero

November 27 (Sun)

9:30–10:10 Takayuki Okuda (The University of Tokyo)
Sequences of degenerations of propeller surfaces and their splittings
(joint work with Shigeru Takamura)

10:25–11:05 Motoo Tange (University of Tsukuba)
Infinite order corks

11:20–11:50 Kouichi Yasui (Hiroshima University)
Nonexistence of twists and surgeries generating exotic 4-manifolds

13:40–14:10 Takao Matumoto (Kyoto University)
On the smooth unknotting conjecture in dimension four XII

14:25–15:05 Osamu Saeki (Kyushu University)
Stable maps on 3-manifolds and signatures of 4-manifolds with boundary

Organizers: Seiichi Kamada, Kouichi Yasui and Takao Matumoto

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