

Four Dimensional Topology

November 24 – November 26, 2017

Room E408, Department of Mathematics, Osaka City University

Program

November 24 (Fri)

13:30–14:10 Hokuto Konno (The University of Tokyo)

Characteristic classes of bundles of a 4-manifold via gauge theory

14:25–15:05 Masaki Taniguchi (The University of Tokyo)

Instantons for 4-manifolds with periodic end and an obstruction to embeddings of 3-manifolds

15:20–16:00 Hironobu Naoe (Tohoku University)

Infinite family of corks having large shadow-complexity

16:15–16:55 Shigeru Takamura (Kyoto University)

Group actions and a geometry based on stabilizers

17:10–17:50 Takayuki Okuda (The University of Tokyo)

Layer construction of multi-dimensional splitting families of degenerations of Riemann surfaces

(joint work with Shigeru Takamura)

November 25 (Sat)

09:30–10:10 Kouki Sato (Tokyo Institute of Technology)

ν^+ -equivalence class of genus one knots

10:25–11:05 Yuanyuan Bao (The University of Tokyo)

The Alexander polynomial of a colored trivalent graph and its MOY-type relations (joint work with Zhongtao Wu)

11:20–12:00 Hisaaki Endo (Tokyo Institute of Technology)

Introduction to trisections of 4-manifolds

13:40–14:30 Wataru Yuasa (Tokyo Institute of Technology)

The classification of genus 2 trisections via Heegaard diagrams of S^3 : a review

14:45–15:25 Kenjiro Sasaki (Kyoto University)

Quotient families of the Klein curve associated with representations of $PSL_2(\mathbb{F}_7)$
(joint work with Shigeru Takamura)

15:40–16:20 Mizuki Fukuda (Tohoku University)

On representations of a certain class of fibered 2-knots

16:35–17:15 Celeste Damiani (Osaka City University)

Moving towards unexplored motion groups

November 26 (Sun)

09:30–10:10 Kenta Hayano (Keio University)

New counterexamples to Stipsicz's conjecture on fiber-sum indecomposable Lefschetz fibrations

(joint work with Refik İnanç Baykur and Naoyuki Monden)

10:25–11:05 Toshifumi Tanaka (Gifu University)

On composite symmetric unions

11:20–12:00 Kimihiko Motegi (Nihon University)

Slice genera versus Seifert genera of knots in twist families

(joint work with Kenneth L. Baker)

13:40–14:30 Kouki Sato (Tokyo Institute of Technology)

Bridge trisections of knotted surfaces

14:45–15:25 Kokoro Tanaka (Tokyo Gakugei University)

A relation between biquandle colorings and quandle colorings

(joint work with Katsumi Ishikawa)

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