Four Dimensional Topology

November 29 – December 1, 2019

Room E404/406/408, Department of Mathematics, Osaka University

Program

November 29 (Fri)

13:30–14:10   Kouki Sato (University of Tokyo)
Category of formal knot complexes

14:30–15:10   Masaki Taniguchi (University of Tokyo)
Homology cobordism group of homology 3-spheres and Chern-Simons functional
(joint work with Yuta Nozaki and Kouki Sato)

15:30–16:10   Shigeru Takamura (Kyoto University)
New geometry behind group actions

16:30–17:10   Mizuki Fukuda (Tokyo Gakugei University)
On $\Gamma(p, q, r)$-representations of branched twist spins

17:30–18:10   Kokoro Tanaka (Tokyo Gakugei University)
The bridge number of surface links and kei colorings
(joint work with Kouki Sato)

November 29 (Sat)

09:50–10:30   Kenta Hayano (Keio University)
Classification of genus-1 holomorphic Lefschetz pencils
(joint work with Noriyuki Hamada)

10:50–11:30   Jiro Adachi (Hokkaido University)
Goursat surgery and Engel structure

11:50–12:30   Koji Yamazaki (Tokyo Institute of Technology)
Automorphisms of Engel manifolds

14:00–14:40   Nobuhiro Nakamura (Osaka Medical College)
Homotopy non-equivalence of homeomorphism and diffeomorphism groups of spin 4-manifolds
(joint work with Tsuyoshi Kato and Hokuto Konno)

15:00–15:40   Nobuo Iida (University of Tokyo)
A Bauer-Furuta type refinement of Kronheimer-Mrowka's invariant for 4-manifolds with contact boundary

16:00–16:40   Takayuki Okuda (University of Tokyo)
Topologically inequivalent degenerations with same singular fibers

17:00–17:40   Hokuto Konno (RIKEN)
The diffeomorphism and homeomorphism groups of K3

December 1 (Sun)

09:50–10:30   Kouichi Yasui (Osaka University)
Stably exotic 4-manifolds

10:50–11:30   Benjamin Bode (Osaka University)
A construction of elements of motion groups as algebraic varieties of low degree

11:50–12:30   Seiichi Kamada (Osaka University)
Motion groups of H-trivial links and immersed surface-links

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