

- Collaborative works are presented by the underlined authors. The talks with * mark are presented through document camera, while \flat marks denote presentations on whiteboards. The speakers with \star marks are professors emeriti.

Topology

September 25th (Thu) Conference Room VI

9:20–12:00

- 10-01-0025
1 Kazuaki Higa (Kochi Univ.) A surviving condition on permanent cycles in the Adams E_2 -term \cdots 10
Ryo Kato
Katsumi Shimomura (Kochi Univ.)
- 10-01-0043
2 Kentaro Miyazawa (Kochi Univ.) On the action of Greek letter element β_1 in the stable homotopy groups
Katsumi Shimomura (Kochi Univ.) of spheres \cdots 10
- 10-01-0052
3 Norihiko Minami On the Beilinson–Rosenblyum isogeny theorem of the Hurewicz functor
(Nagoya Inst. of Tech.) for infinite loop spaces \cdots 15
- 10-01-0006
4 Saki Itagaki (Kochi Univ.) Correspondence between categories of finite topological spaces and finite
Yutaka Hemmi (Kochi Univ.) simplicial complexes \cdots 10
- 10-01-0015
5 Takahiro Matsushita (Univ. of Tokyo) The simplicial sets related to the Hom complexes of graphs \cdots 10
- 10-01-0022
6 Naoya Suzuki (Nagoya Univ.) The Dixmier–Douady class in a simplicial de Rham complex \cdots 15
- 10-01-0016
7 Hirokazu Nishinobu (Kochi Univ.) Certain examples of posets of rational Gottlieb subgroups \cdots 10
Toshihiro Yamaguchi (Kochi Univ.)
- 10-01-0045
8 Katsuhiko Kuribayashi (Shinshu Univ.) Loop products on Noetherian Hopf spaces \cdots 10
- 10-01-0005
9 Miho Hatanaka (Osaka City Univ.) Spin toric manifolds associated to graphs \cdots 10
- 10-01-0032
10 Hiraku Abe (Osaka City Univ.) Young diagrams and intersection numbers for toric manifolds arising
from root systems \cdots 15
- 10-01-0024
11 Tatsuya Horiguchi (Osaka City Univ.) The equivariant cohomology rings of Peterson varieties \cdots 10
Megumi Harada (McMaster Univ.)
Mikiya Masuda (Osaka City Univ.)
- 10-01-0042
12 Takayuki Yamaguchi (Hiroshima Univ.) Complete classification of Gauss words of rank less than or equal to 5
Tomonori Fukunaga (Hokkaido Univ.) by universal finite type invariant \cdots 10
Takaaki Yamanoi (Hokkaido Univ.)

14:15–15:25

- 10-01-0023
13 Yukinobu Yajima (Kanagawa Univ.)* The D -space property of infinite products \cdots 10
Yasushi Hirata (Kanagawa Univ.)
- 10-01-0004
14 Tatsuhiko Yagasaki (Kyoto Inst. Tech.) Homeomorphism groups of non-compact surfaces endowed with the
Taras Banakh Whitney topology \cdots 15
(Ivan Franko Nat. Univ. of Lviv)
Kotaro Mine (Univ. of Tokyo)
Katsuro Sakai (Kanagawa Univ.)

2 Topology

10-01-0002	15 Takashi Shimomura (Nagoya Univ. of Econ.)	Ergodic measures and graph circuits of a sequence of covers	10
10-01-0003	16 Takashi Shimomura (Nagoya Univ. of Econ.)	Combinatorial construction of completely scrambled compact system	10
10-01-0033	17 Takamitsu Yamauchi (Ehime Univ.)	On coarse geometric infinite-dimensionality of the countable direct sum of the integers	15

15:45–16:45 Talk invited by Topology Section

10-02-0001	Brian Bowditch (Univ. of Warwick/Tokyo Tech)	* Rigidity results for spaces associated to a surface	
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September 26th (Fri) Conference Room III

10:30–10:45 Presentation Ceremony for MSJ Geometry Prize 2014**10:50–11:50 Award Lecture for 2014 Geometry Prize**

03-02-1003	<u>Goto Ryushi</u> (Osaka Univ.) <u>Miyajima Kimio</u> (Kagoshima Univ.*)	Kuranishi's masterpieces and their developments in deformation theory and CR-geometry	
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Conference Room VI

13:00–14:15

10-01-0041	18 <u>Masaaki Suzuki</u> (Meiji Univ.) Takuya Sakasai (Univ. of Tokyo) Shigeyuki Morita (Univ. of Tokyo*/Tokyo Tech*)	Integral Euler characteristic of Out F_{11}	10
10-01-0011	19 Shunsuke Tsuji (Univ. of Tokyo) ^b	The logarithms of Dehn twists on non-orientable surfaces	15
10-01-0010	20 Nariya Kawazumi (Univ. of Tokyo)	The Turaev cobracket, the Enomoto–Sato traces and the divergence cocycle in the Kashiwara–Vergne problem	15
10-01-0037	21 <u>Tomohiko Ishida</u> (Kyoto Univ.) Masatoshi Sato (Gifu Univ.)	A twisted first homology of the handlebody mapping class group	10
10-01-0053	22 Tomohiko Ishida (Kyoto Univ.)	Vanishing of volume flux groups	10

September 27th (Sat) Conference Room VI

9:20–11:50

10-01-0044	23 Inasa Nakamura (Univ. of Tokyo)	Two-dimensional braids over a surface link	10
10-01-0019	24 Shin Satoh (Kobe Univ.)	Crossing changes unknot a welded knot	10
10-01-0021	25 Seiichi Kamada (Osaka City Univ.)	Cords and 1-handles attached to surface-knots	10
10-01-0048	26 <u>Tetsuya Abe</u> (Tokyo Tech) In Dae Jong (Kinki Univ.)	Annulus twist and diffeomorphic 4-manifolds II	15
10-01-0051	27 Masatsuna Tsuchiya (Gakushuin Univ.)	On homotopy $K3$ surface constructed by two left handed trefoil knots	10

10-01-0035	28 Noriyuki Hamada (Univ. of Tokyo)	On sections of the Matsumoto–Cadavid–Korkmaz Lefschetz fibration	15
10-01-0050	29 Takuya Ukida (Tokyo Tech)	A genus zero Lefschetz fibration on the Akbulut cork	10
10-01-0020	30 Takahiro Oba (Tokyo Tech)	Diffeomorphism types of Stein fillings and mapping class groups	15
10-01-0036	31 Naohiko Kasuya (Univ. of Tokyo)	On contact submanifolds of the odd dimensional Euclidean spaces	15
10-01-0012	32 Tomohiro Horiuchi (Chuo Univ.)	Leafwise holomorphic automorphisms of Reeb components	15
14:15–15:40			
10-01-0028	33 Kuniyuki Takaoka (Waseda Univ.)	LR number of spherical closed curves	10
10-01-0029	34 <u>Noboru Ito</u> (Waseda Univ.) Yusuke Takimura (Gakushuin Boy’s Junior High School)	Triple chords and strong (1, 2) homotopy	10
10-01-0030	35 <u>Noboru Ito</u> (Waseda Univ.) Yusuke Takimura (Gakushuin Boy’s Junior High School)	Strong and weak (1, 2) homotopies on spherical curves and new invariants	10
10-01-0027	36 Kenta Hayano (Hokkaido Univ.) <u>Noboru Ito</u> (Waseda Univ.)	A new aspect of the Arnold invariant J^+ from a global viewpoint	15
10-01-0014	37 Keiichi Sakai (Shinshu Univ.)	Lin–Wang type formula for Haefliger invariant	15
10-01-0031	38 <u>Yusuke Mizota</u> (Kyushu Univ.) Takashi Nishimura (Yokohama Nat. Univ.)	Is the module of lowerable vector fields finitely generated?	10

16:00–17:00 Talk invited by Topology Section

10-02-0002	Masaharu Ishikawa (Tohoku Univ.)	Stable maps and branched shadows of 3-manifolds	
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September 28th (Sun) Conference Room VI

9:20–12:00

10-01-0026	39 Naoko Kamada (Nagoya City Univ.)	The writhes of a twisted knot	10
10-01-0038	40 <u>Takuji Nakamura</u> (Osaka Electro-Comm. Univ.) Yasutaka Nakanishi (Kobe Univ.) Shin Satoh (Kobe Univ.)	On the set of virtual knots with a given state number	10
10-01-0001	41 <u>Yasutaka Nakanishi</u> (Kobe Univ.) Yoko Sakamoto (Kobe Univ.) Shin Satoh (Kobe Univ.)	Delta-crossing number for knots	10
10-01-0049	42 Shosaku Matsuzaki (Waseda Univ.)	On arrangements of component-trivial links on planes	15
10-01-0013	43 Atsushi Ishii (Univ. of Tsukuba)	Circulatory orientations and handlebody-links	10
10-01-0009	44 Toshio Saito (Joetsu Univ. of Edu.)	Essential tangle spheres of knots	10
10-01-0007	45 <u>Yoshiyuki Nakagawa</u> (Ryukoku Univ.) Yasushi Yamashita (Nara Women’s Univ.) Makoto Tamura (Osaka Sangyo Univ.)	The growth of torus link groups	10

10-01-0040			
46	Yuka Kotorii (Univ. of Tokyo)	On relation between the Milnor's μ -invariant and HOMFLYPT polynomial	10
10-01-0017			
47	Yasuyoshi Tsutsumi (Oshima Nat. Coll. of Maritime Tech.)	Negativity of the third Ohtsuki invariants of the Brieskorn–Hamm homology 3-spheres	10
10-01-0039			
48	<u>Takayuki Morifuji</u> (Keio Univ.) * Anh T. Tran (Ohio State Univ.)	Parabolic representations of 2-bridge knots and twisted Alexander polynomials	10
10-01-0047			
49	Teruaki Kitano (Soka Univ.)	Reidemeister torsion of a homology 3-sphere surgeried along a torus knot for $SL(2, \mathbb{C})$ -irreducible representatons	10
10-01-0046			
50	<u>Takamichi Sushida</u> (Meiji Univ.) Akio Hizume (Ryukoku Univ.) Yoshikazu Yamagishi (Ryukoku Univ.)	Shape limit in Voronoi spiral multiple tilings	15
10-01-0018			
51	Hiroataka Akiyoshi (Osaka City Univ.)	Side parameter for the torus with a single cone point	10