

# Topology

March 15th (Sat) Conference Room IV

## 10:00–12:00

- 10-01-0036  
1 Tetsuya Abe (Tokyo Tech) # Infinitely many ribbon disks with the same exterior ..... 15
- 10-01-0012  
2 Makoto Ozawa (Komazawa Univ.) # Dehn surgery and Seifert surface system ..... 10  
Koya Shimokawa (Saitama Univ.)
- 10-01-0006  
3 Kazuhiro Ichihara (Nihon Univ.) # Strong cylindricality and the monodromy of bundles ..... 10  
Tsuyoshi Kobayashi  
(Nara Women's Univ.)  
Yo'av Rieck (Univ. of Arkansas)
- 10-01-0037  
4 Neil Hoffman (Univ. of Melbourne) # Verified computations for hyperbolic 3-manifolds ..... 15  
Kazuhiro Ichihara (Nihon Univ.)  
Masahide Kashiwagi (Waseda Univ.)  
Hidetoshi Masai (Tokyo Tech)  
Shin'ichi Oishi  
(Waseda Univ. / JST CREST)  
Akitoshi Takayasu (Waseda Univ.)
- 10-01-0025  
5 Naoki Sakata (Hiroshima Univ.) # Canonical decompositions of hyperbolic fibered two-bridge link complements ..... 10
- 10-01-0013  
6 Mikio Furokawa (Hiroshima Univ.) # A construction of the Ford domains of fuchsian once-punctured Klein bottle groups ..... 10
- 10-01-0001  
7 Eiji Ogasa (明治学院大) \* New developments of local move identities of knot polynomials ..... 10
- 10-01-0002  
8 Taizo Kanenobu (Osaka City Univ.) # Evaluations of Gordian distances of knots by polynomial invariants ... 10  
Hiromasa Moriuchi (近畿大医)
- 10-01-0010  
9 Sumiko Horiuchi # A lattice of virtual knots by crossing changes ..... 15  
(Tokyo Woman's Christian Univ.)  
Yoshiyuki Ohyama  
(Tokyo Woman's Christian Univ.)

## 14:15–16:30

- 10-01-0008  
10 Kengo Kawamura (Osaka City Univ.) # Tabulation of the clasp number of prime knots with up to 10 crossings ..... 15  
Teruhisa Kadokami  
(East China Normal Univ.)
- 10-01-0016  
11 Hideo Takioka (Osaka City Univ.) # The cable  $\Gamma$ -polynomials of mutant knots ..... 10
- 10-01-0023  
12 Takuji Nakamura # On the number of colors in effective Fox 9-colorings for knots ..... 10  
(Osaka Electro-Comm. Univ.)  
Yasutaka Nakanishi (Kobe Univ.)  
Shin Satoh (Kobe Univ.)
- 10-01-0027  
13 Migiwa Sakurai (東京女大理) # A polynomial invariant and the forbidden move of virtual knots ..... 10
- 10-01-0009  
14 Keiji Tagami (Tokyo Tech) # A categorification of the Miyazawa polynomial ..... 10
- 10-01-0030  
15 Kenichi Shimizu (Nagoya Univ.) # New examples of handlebody-TQFTs ..... 15  
Taiki Shibata (Univ. of Tsukuba)

- 10-01-0032  
16 Yusuke Takimura (Waseda Univ.) (1, 2) homotopy on knot projections ..... 10  
Noboru Ito (Waseda Univ.)
- 10-01-0033  
17 Yusuke Takimura (Waseda Univ.) Strong and weak (1, 3) homotopies on knot projections ..... 15  
Noboru Ito (Waseda Univ.)  
Kouki Taniyama (Waseda Univ.)
- 10-01-0014  
18 Takefumi Nosaka (Kyushu Univ.)<sup>#</sup> Longitudes in  $SL_2$ -representations of link groups and Milnor–Witt  $K_2$ -groups of fields ..... 15

**17:00–18:00 Talk invited by Topology Section**

- 10-02-0002  
Takefumi Nosaka (Kyushu Univ.)<sup>#</sup> Low dimensional topological invariants of bilinear forms from quandle theory

## March 16th (Sun) Conference Room IV

**9:30–11:45**

- 10-01-0017  
19 Shin Kiriki (Tokai Univ.)<sup>#</sup> Blenders in center unstable Hénon-like families: with an application to  
Lorenzo J. Díaz (PUC-Rio) heterodimensional bifurcations ..... 15  
Katsutoshi Shinohara  
(JST FIRST 合原最先端数理モデルプロジェクト)
- 10-01-0022  
20 Kentaro Saji (Kobe Univ.)\* Isotopy of Morin singularities ..... 10
- 10-01-0004  
21 Tetsuya Itoh (Kyoto Univ.)<sup>#</sup> Overtwisted disc in planar open books ..... 10  
Keiko Kawamuro (Univ. Iowa)
- 10-01-0029  
22 Takahiro Oba (Tokyo Tech)<sup>#</sup> Stein fillings of homology spheres with planar open books ..... 10
- 10-01-0031  
23 Kouichi Yasui (Hiroshima Univ.)<sup>#</sup> Partial twists and exotic Stein fillings ..... 15
- 10-01-0015  
24 Takuya Ukida (Tokyo Tech)<sup>#</sup> PALF structure on Akbulut–Yasui plugs and plug twist ..... 10
- 10-01-0018  
25 Ryoma Kobayashi (Tokyo Univ. of Sci.)<sup>#</sup> Lefschetz fibrations with a  $(-1)$ -section and finitely presented groups  
Naoyuki Monden (Tokyo Univ. of Sci.) ..... 15
- 10-01-0026  
26 Shota Murakami (Keio Univ.)<sup>#</sup> Deformation equivalence classes of surfaces with  $b_1 = 1$  and  $b_2 = 0$   
..... 10
- 10-01-0034  
27 Takuya Sakasai (Univ. of Tokyo)<sup>#</sup> Orthogonal decomposition of the Sp-invariant part of the symplectic  
Masaaki Suzuki (Meiji Univ.) derivation Lie algebra ..... 15  
Shigeyuki Morita  
(Univ. of Tokyo\*/東工大\*)

**13:30–14:30 Talk invited by Topology Section**

- 10-02-0003  
Taro Yoshino (Univ. of Tokyo) .

## March 17th (Mon) Conference Room IV

**10:00–12:00**

- 10-01-0021  
28 Katsuhisa Koshino (Univ. of Tsukuba)\* A hypograph space and its compactification ..... 15  
Katsuro Sakai (Kanagawa Univ.)  
Hanbiao Yang (Univ. of Tsukuba)
- 10-01-0019  
29 Ryoma Kobayashi (Tokyo Univ. of Sci.)<sup>#</sup> L-S categories of vector bundles over projective spaces ..... 15

- 10-01-0020  
30 Tadayuki Haraguchi (Internat. Pacific Univ.) # About introduction and geraldization of a model structure on the category of numerically generated spaces ..... 15
- 10-01-0028  
31 Yasuhiro Momose (Shinshu Univ.) # On quasi-schemoids and the Baues–Wirsching cohomology ..... 15  
Yasuhide Numata (Shinshu Univ.)
- 10-01-0035  
32 Syunji Moriya (Kyoto Univ.) # On semi-direct product of little  $n$ -cubes spaces ..... 15
- 10-01-0038  
33 Syunji Moriya (Kyoto Univ.) # Homology of long knots and multiplicative formality ..... 15
- 10-01-0039  
34 Toshiyuki Miyauchi (Fukuoka Univ.) # Determination of the 2-primary components in 32-stem unstable homotopy groups of spheres ..... 10  
Juno Mukai (信州大\*)
- 14:15–15:15**
- 10-01-0003  
35 Yoshinobu Kamishima (Tokyo Metro. Univ.) # Complex contact structure on nilmanifolds ..... 10  
Akira Tanaka (Tokyo Metro. Univ.)
- 10-01-0007  
36 Yusuke Suyama (Osaka City Univ.) # Rotation number of primitive vector sequences ..... 10
- 10-01-0011  
37 Yusuke Suyama (Osaka City Univ.) # Examples of toric manifolds which are not quasitoric manifolds ..... 10
- 10-01-0024  
38 Miho Hatanaka (Osaka City Univ.) # Gluing construction of topological toric manifolds ..... 15
- 15:45–16:45 Talk invited by Topology Section**
- 10-02-0001  
Megumi Harada (McMaster Univ.)\* Okounkov bodies and toric degenerations