平成 28 年度　数学研究所研究所員の業績
（論文と口頭発表）

(河内 明夫)

・論文・著書

[1] Knot theory for spatial graphs attached to a surface, Proceedings of the ICTS Program: Knot Theory and its Applications, Contemporary Mathematics 670 (2016), 141-168.

[2] A chord graph constructed from a ribbon surface-link, Contemporary Mathematics (to appear).

[3] (with I. Tayama) Representing 3-manifolds in the complex number plane, Topology and its Applications (to appear).

[4] (with Y. Joung, S. Kamada and S. Y. Lee) Polynomial invariants for oriented surface-links via quantum A2 invariant, Topology and its Applications (to appear).

[5] On a cross-section of an immersed sphere-link in 4-space, Topology and its Applications (to appear).

[6] (with K. Kaur, S. Kamada and M. Prabhakar) Gauss diagrams, unknotting numbers and trivializing numbers of spatial graphs, Topology and its Applications (to appear).

[7] Supplement to a chord diagram of a ribbon surface-link, Journal of Knot Theory and Its Ramifications 26 (2017), 1750033 (5 pages).

[8] Splitting criteria for a definite 4-manifold with infinite cyclic fundamental group.

[9] Cross-index of a graph.

[10] (with K. Kauer, S. Kamada and M. Prabhacker) Generalized unknotting numbers of virtual knots.

[11] (with J. Kim) Immersed 2-knots with essential singularity.

[12] (with A. Shimizu) On the orientations of monotone knot diagrams.

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[1] On a cross-sectional link of an immersed sphere-link in 4-space, Friday Seminar on Knot Theory, 大阪市立大学理学部Ｆ棟 415 号室(中講究室), 4 月 8 日.

[2] Characteristic genera of closed orientable 3-manifolds, Seminar Talks, Talk 1: May 3, 2016, Talk 2: May 5, 2016, Dalian University of Technology, Dalian China.

[3] On a cross-sectional link of an immersed sphere-link in 4-space, 2016 International Workshop on Low-dimensional Topology in Dalian, Dalian University of Technology, Dalian China, May 7, 2016.

[4] 図形数学の必要性･･･結び目の研究からわかること, 大阪私学数学教育研究会春の講演会, 大阪私学会館, 2016 年 5 月 20 日.

[5] Cross-index of a graph, Workshop on graphs and knots, Xiamen University, Xiamen China, June 25, 2016.

[6] Crossing number of a graph associated to a tree, KOOK-TAPU Joint Seminar on Knots and Related Topics, Pusan National University, Pusan Korea, July 25, 2016.
[7] Cross-index of a graph, International Workshop: Topology and graphs in polymer chemistry, 東京工業大学東工大蔵前会館手島精一記念会議室, August 6, 2016.
[8] On Hosokawa polynomial of a link, dedicated to the memory of Professor Fujitsugu Hosokawa, 国際研究集会 KOOK-TAPU Workshop of Knots in Tsushima Island, 長崎県対馬市, September 8, 2016.
[9] Cross-index of a graph,東北結び目セミナー, 東北大学片平キャンパスさくらホール, October 15, 2016
[10] Analytic function for all the orientable 3-manifolds via Blaschke product, Mini-Workshop on Blaschke Product, 大阪市立大学理学部 E 棟 E408(大講究室), 2016 年 11 月 24 日.
[11] Deforming a band-chord graph of a bounded ribbon surface-knot, 2016 年度琉球結び目セミナー, 那覇市てんぶす那覇 2 階那覇市伝統工芸館会議室, 2016 年 12 月 18 日.

(佐官 謙一)
・口頭発表
[1] Quasiconformal harmonic mappings with the convex holomorphic part (joint research with D. Partyka and Jian-Feng Zhu), 2016 年 6 月 3 日, 14:30～16:30, 島根大学, 複素解析セミナー.
[2] Quasiconformal harmonic mappings with the convex holomorphic part (joint research with D. Partyka and Jian-Feng Zhu), 2016 年 6 月 27 日, 11:20～11:45 ; XVIII-th Conference on Analytic Functions and Related Topics, Chelm (Poland), June 26-29, 2016.
[3] Quasiconformal harmonic mappings with the convex holomorphic part (joint research with D. Partyka and Jian-Feng Zhu), 2016 年 8 月 25 日, 15:30～16:20; Workshop on Geometric Function Theory and Special Functions (2016 August 25～26) Middle Lecture Hall, Graduate School of Information Sciences, Aobayama Campus, Tohoku University, Sendai, JAPAN.
[4] Quasiconformal harmonic mappings of the unit disk onto a convex domain (joint research with D. Partyka) , 2016 年 9 月 2 日, 15:00～16:00, Xiamen Campus room E4-102 , Huaqiao University ,China.
[5] Quasiconformal harmonic mappings with the convex holomorphic part (joint research with D. Partyka and Jian-Feng Zhu), 2016 年 9 月 6 日, 15:00～16:00, Quanzhou Campus Mathematical building room 306, China.
[6] Quasiconformal harmonic mappings with the convex holomorphic part (joint research with D. Partyka and Jian-Feng Zhu), 2016 年 12 月 3 日, 15:40～16:40, Workshop “Prospects of Theory of Riemann surfaces “ (2016 December 2～4), Main Building Room 128, Faculty of Science, Yamaguchi

University.
[7] Quasiconformality of Poisson integrals, 2017 年 3 月 10 日,
14:30～16:30, 島根大学, 複素解析セミナー.

(神谷 茂保)

・論文

[1] Notes on non-discrete complex hyperbolic triangle groups of type $(n,n,\infty;k)$ II (to appear)

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[1] 2 次元複素双曲空間に作用する理想三角群、
複素解析セミナー、大阪市立大学、２０１６年５月１２日

[2] 2 次元複素双曲空間に作用する(n,n,∞)型複素双曲三角群、
複素解析セミナー、大阪市立大学、２０１６年６月９日

[3] $(n,n,\infty;k)$型の複素双曲三角群について、
ポテンシャルセミナー、名城大学、２０１６年１０月２１日
[4] 複素双曲三角群（１）、
春の代数的位相幾何学セミナー、岡山理科大学、２０１７年３月２９日
[5] 複素双曲三角群（２）、
春の代数的位相幾何学セミナー、岡山理科大学、２０１７年３月２９日

(阿部 拓)

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[1] H. Abe and P. Crooks, ``Hessenberg varieties for the minimal nilpotent orbit, to appear in Pure Appl. Math. Q.
[2] H. Abe and S. Billey, ``Consequences of the Lakshmibai-Sandhya Theorem: the ubiquity of permutation patterns in Schubert calculus and related geometry'', to appear in Advanced Studies in Pure Mathematics.
[3] H. Abe and T. Horiguchi, ``The torus equivariant cohomology rings of Springer varieties'', Topology Appl. ¥textbf{208} (2016), 143-159.
[4] H. Abe, L. DeDieu, F. Galetto, M. Harada, ``Geometry of Hessenberg varieties with applications to Newton-Okounkov bodies'', arXiv:1612.08831.（プレプリント）

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[1] H. Abe, ``Flat families of Hessenberg varieties with an application to Newton-Okounkov bodies'', Geometry and Topology seminar, The University of Western Ontario, Jan. 2017.
[2] H. Abe, ``Flat families of Hessenberg varieties with an application to Newton-Okounkov bodies'', AMS special session on combinatorial and

cohomological invariants of flag manifolds and related varieties, Atlanta, Jan. 2017.
[3] H. Abe, ``Flat families of Hessenberg varieties with an application to Newton-Okounkov bodies", Algebra/Combinatorics/Geometry research seminar, Smith College, Dec. 2016.
[4] H. Abe, ``A Weyl character formula for Hessenberg varieties", CMS Session on Combinatorial Algebraic Geometry, Niagara falls, Dec. 2016.
[5] H. Abe, ``On flat degenerations of regular semisimple Hessenberg varieties", Mini-Workshop on Toric Topology in Okayama, Okayama University of Science, May. 2016.
[6] H. Abe, ``On the flatness of certain families of Hessenberg varieties", Toric Topology 2016 in Kagoshima, Kagoshima University, Apr. 2016.

(綾野 孝則)

・論文

[1]T. Ayano, "On Jacobi Inversion Formulae for Telescopic Curves", SIGMA 12 (086), 2016 年 8 月.

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[2]"Jacobi Inversion Formulae for Telescopic Curves", Characteristic classes and the intersection theory, Higher School of Economics, 2016 年 10 月 6 日.
[3]"Jacobi Inversion Formulae for Telescopic Curves", Weekly seminar of the Laboratory of algebraic geometry, Higher School of Economics, 2016 年 10 月 14 日.
[4]"Telescopic 曲線に対する代数積分の逆関数について"、日本応用数理学会 2017 年研究部会連合発表会「数論アルゴリズムとその応用」、電気通信大学、2017 年 3 月 7 日。
[5]"Inversion of algebraic integrals for telescopic curves"、第 22 回代数学若手研究会、岡山大学、2017 年 3 月 9 日

(岡崎 真也)

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[1] S. Okazaki, Constituent knots of a handlebody-knot, The 12th East Asian School of Knots and Related Topics,The University of Tokyo, February 13, 2017.

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``Cubic constraints for the resolvents of the ABJM matrix model and its cousins,'' e-Print: arXiv:1609.03681 [hep-th], プレプリント,
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[1] ``Loop equations for Chern-Simons-matter matrix models,''
理化学研究所（和光）統合支援施設 二階 大会議室,理化学研究所ワークショップ「超対称理論の数理的理解の進展」susyiTHES2016,
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[2] ``Elliptic algebra at root of unity limit,''大阪市立大学学術情報総合センター10 階会議室,国際会議``Progress in Quantun Field Theory and String Theory II,''
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(河村 建吾)
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[1] K. Kawamura, K. Oshiro and K. Tanaka, Independence of Roseman moves including triple points, Algebr. Geom. Topol. 16(4) 2443-2458, 2016 年 9 月.
[2] S. Kamada and K. Kawamura, Ribbon-clasp surface-links and normal forms of immersed surface-links, Topology Appl., to appear.
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[1] Surface-links which bound immersed handlebodies, 研究集会「Intelligence of Low-dimensional Topology」, 京都大学, 2016 年 5 月 19 日.
[2] Diagrams of immersed surface-knots and quandle (co)homology groups, 研究集会「拡大 KOOK セミナー2016」, 大阪電気通信大学, 2016 年 8 月 25 日.
[3] Immersed surface-knots and quandle (co)homology groups, 研究集会「東北結び目セミナー2016」, 東北大学, 2016 年 10 月 16 日.
[4] 4 次元空間にはめ込まれた曲面とカンドルホモロジー群について, 近畿大学数学教室講演会, 近畿大学, 2016 年 12 月 9 日.

(梶ヶ谷 徹)
・論文
[1]. Takahiro Hashinaga and Toru Kajigaya, A class of non-compact homogeneous Lagrangian submanifolds in complex hyperbolic spaces, Ann. Global Anal.Geom. 51 (2017), no. 1, 21-33.
[2]. 梶ヶ谷徹, 複素双曲空間内の等質ラグランジュ部分多様体, 数理解析研究所講究録 No.2017, 部分多様体の微分幾何学的研究,pp.84-103.
[3]. Toru Kajigaya, Reductions of minimal Lagrangian submanifolds with symmetries, 21pages, submitted.
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[1]. *On homogeneous Lagrangian submanifolds in complex hyperbolic spaces*, Geometry Seminar, Durham University, May. 2016.
[2]. 複素双曲空間内の等質ラグランジュ部分多様体, RIMS 研究集会, 京都大学, 2016 年 6 月.
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微分幾何小研究集会, 東北大学, 2017 年 2 月.
[4]. *On Lagrangian **submanifolds with symmetries*, The 2nd OCAMI-KOBE-WASEDA Joint International Workshop on Differential Geometry and Integrable Systems, Osaka City University, Mar. 2017.
[5]. 対称性を持つ極小ラグランジュ部分多様体のリダクション, 日本数学会, 首都大学東京, 2017 年 3 月.
[6]. *Reductions of minimal Lagrangian submanifolds with symmetries*, The 13th OCAMI-RIRCM Joint Differential Geometry Workshop on Submanifold Geometry and Lie Theory , Osaka City University, Mar. 2017.

(関 穣慶)

・論文

[1] ″Entanglement Entropy of Scattering Particles″ Robi Peschanski and Shigenori Seki, Physics Letters B758 (2016) 89-92

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[1]“Entanglement Entropy of Scattering Particles” セミナー, Shigenori Seki, 2016 年 6 月 2 日　場所：IPhT, CEA-Saclay, フランス
[2]“Entanglement Entropy of Scattering Particles in S-matrix Formalism” セミナー, Shigenori Seki, 2016 年 6 月 22 日　場所：京都大学理学部素粒子論研究室
[3] “Momentum Space Entanglement Entropy of Scattering Particles” セミナー, 関 穣慶, 2017 年 3 月 15 日　場所：近畿大学理工学部
[4] “Entanglement Entropy of Particles in Scattering Process” Robi Peschanski, 関 穣慶（登壇者）,日本物理学会第 72 回年次大会, 2017 年 3 月 17 日　場所：大阪大学豊中キャンパス

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[1]″Entanglement Entropy of Scattering Particles″, Shigenori Seki, Yukawa International Seminar 2016 ″Quantum Matter, Spacetime and Information″ 2016 年 6 月 15 日　場所：京都大学基礎物理学研究所

(滝岡 英雄)

・論文

[1] Hwa Jeong Lee and Hideo Takioka, On the arc index of cable links and Whitehead doubles, Journal of Knot Theory and Its Ramifications 25 (2016), no. 7, 1650041, 23pp.
[2] Hwa Jeong Lee and Hideo Takioka, On the arc index of Kanenobu knots, Journal of Knot Theory and Its Ramifications 26 (2017), 1750015, 26pp.
[3] Hideo Takioka, A characterization of the $¥Gamma$-polynomials of knots with clasp number at most two, Journal of Knot Theory and Its Ramifications 26 (2017), 1750013, 27pp.
[4] Hideo Takioka, The $¥Gamma$-polynomials of Abe-Tange's ribbon knots, preprint.

[5] Hideo Takioka, Infinitely many knots with the trivial $(2,1)$-cable $¥Gamma$-polynomial, preprint.

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(堀口 達也)

・論文

[1] H. Abe and T. Horiguchi, ″The torus equivariant cohomology rings of Springer varieties″. Topology Appl. 208(2016), 143-159.

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[1] ″Hessenberg varieties and hyperplane arrangements (poster session)″, The Fields Institute for Research in Mathematical Sciences, Introductory Workshop on Combinatorial Algebraic Geometry, August 16, 2016.

[2] ″ヘッセンバーグ多様体と超平面配置″, 姫路市市民会館, 第 43 回変換群論シンポジウム, 2016 年 11 月 17 日.

[3] ″Hessenberg varieties and graph theory″, 九州大学, 九州大学トポロジー金曜セミナー, 2016 年 11 月 25 日.

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(村井 実)

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[1]On the equiblium states of an inextensible elasitc ring under the uniform pressure

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(森澤 理之)

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[2] 森澤理之, ″Integrability of cohomogenity one string in AdS spacetime″, 第 18 回特異点研究会「特異点と時空、および関連する物理」, 立教大学, 2016 年 12 月 27 日

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[1] Yoshiyuki Morisawa, ″Cohomogenity one string in AdS spacetime″, The 26th Workshop on General Relativity and Gravitation in Japan (JGRG26), 大阪市立大学, 2016 年 10 月 24-28 日

(吉岡 礼治)

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[3]S. Ohno, Biharmonic orbits of isotropy representations of symmetric spaces, preprint.

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[1]「A construction of weakly reflective submanifolds in compact symmetric spaces」, RIMS 研究集会 部分多様体の微分幾何学的研究, 京都大学 数理解析研究所, 2016 年 6 月 28 日

[2]「A construction of biharmonic submanifolds in compact symmetric spaces」, 首都大学東京幾何セミナー, 首都大学東京, 2016 年 7 月 15 日

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[6]大野晋司, 酒井高司, 浦川肇 「コンパクト Lie 群内の二重調和等質超曲面の構成」, 日本数学会秋季総合分科会, 関西大学, 2016 年 9 月 17 日

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(松野 研)

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(真瀬 真樹子)

・論文

[1]Makiko Mase, Polytope duality for families of K3 surfaces associated to transpose duality,Commentalli Math. St. Pauli., vol.65, no. 2, (2016), pp. 131--139.

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[2] C. Müller and M. Yasumoto, Semi-discrete constant mean curvature surfaces of revolution with singularities in Minkowski space, Proceedings of the International Conference on Geometry, Integrability and Quantization 18 (2017), 191-202.

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[5] 安本真士, 三価グラフの極大曲面, 第63回幾何学シンポジウム, 岡山大学, 2016年8月.
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(吉脇 理雄)

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