

研究業績のリスト (澤野嘉宏)

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1 学術論文

1.1 査読付学術論文

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1.2 査読付きの会議報告書

1. D.I. Hakim and Y. Sawano, On the boundedness of certain elliptic operators in generalized Morrey spaces, *Sûrikaiseki Kôkyûroku Bessatsu*, **70**, Res. Inst. Math. Sci. (RIMS), Kyoto 131–148 (2018)
2. D.I. Hakim, S. Nakamura and Y. Sawano, Weighted Morrey spaces–complex interpolation and the boundedness of the Hardy-Littlewood maximal operator, *Sûrikaiseki Kôkyûroku Bessatsu*, **65**, Res. Inst. Math. Sci. (RIMS), Kyoto, 109–140 (2017)
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7. Y. Sawano and K. Yabuta, Weighted estimates for fractional type Marcinkiewicz integral operators associated to surfaces, Some topics in harmonic analysis and applications, *Adv. Lect. Math. (ALM)*, **34**, Int. Press, Somerville, MA, 331–367 (2016)
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12. L.P. Castro, H. Fujiwara, S. Saitoh, Y. Sawano, A. Yamada and M. Yamada, Fundamental error estimate inequalities for the Tikhonov regularization using reproducing kernels, Inequalities and applications 2010, *Internat. Ser. Numer. Math.*, **161**, Birkhäuser/Springer, Basel, 87–101 (2012)
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2 口頭発表

2.1 国内外講演

1. “A relation between the Kantrovitch operator and the Hardy–Littlewood maximal operator ”, 日本数学会 2019 年度年会, 東京, (2019)
2. “A non-dense subspace of $\mathcal{M}_q^p$ ”, 日本数学会 2019 年度年会, 東京, (2019)
3. “Elliptic differential operators with onn-smooth coefficients in uniformly local L^2 spaces ”, 日本数学会 2019 年度年会, 東京, (2019)
4. “Interpolation of Morrey spaces for general parameters”, International Conference on Function Spaces, ポーランド (2018)
5. “Decomposition of Morrey spaces ”, 日本数学会 2017 年度年会, 東京 (2017)
6. “Complex interpolation of Morrey spaces ”, 日本数学会 2017 年度年会, 東京 (2017)
7. “Fourier transform and Morrey spaces ”, 日本数学会 2017 年度年会, 東京 (2017)
8. “Interpolation of diamond Morrey spaces”, 4th East Asian Conference on Harmonic Analysis and Applications, 韓国 (2016)
9. “Interpolation of Morrey spaces”, ザンジャン大学 数学セミナー, イラン (2015)
10. “A phase decomposition formula”, ISSAC CONFERENCE 2015, マカオ (2015)
11. “Morrey spaces for non-doubling measures”, 厦門大学 解析セミナー, 中国, (2014)
12. “Decompositions of Morrey spaces”, 厦門大学 解析セミナー, 中国, (2014)
13. “Littlewood-Paley theory and Gagliardo-Nirenberg inequalities”, AIMS 国際会議, スペイン (2014)
14. “Orlicz-Hardy spaces and their duals”, 北京師範大学 関数空間とその応用の討論班, 中国 (2013)
15. “A new framework for generalized Besov-type and Triebel-Lizorkin-type spaces”, The Erwin Schrödinger International Institute for Mathematical Physics (Session ESI12), オーストリア (2012)
16. “Hardy spaces with variable exponents”, ザンジャン大学 数学セミナー, イラン (2012)

17. “Hardy spaces with variable exponents and generalized Campanato spaces”, アラバマ大学 SEAM28 2012, アメリカ (2012)
18. “Hardy spaces with variable exponents and generalized Campanato spaces”, プリンストン大学 解析セミナー, アメリカ (2012)
19. “Morrey spaces for non-doubling measures”, 浙江工科大学数学セミナー, 中国 (2012)
20. “Olsen’s inequalities and their applications”, 浙江教育大学, 中国 (2012)
21. “Hardy spaces with variable exponents and generalized Campanato spaces”, 浙江大学数学セミナー, 中国 (2012)
22. “Hardy spaces with variable exponents and generalized Campanato spaces”, FSDONA2011, ドイツ (2011)
23. “Morrey spaces for non-doubling measures”, ISSAC CONFERENCE 2011, ロシア (2011)
24. “Morrey spaces for non-doubling measures”, Operators in Morrey Type Spaces and Applications, トルコ (2011)
25. “Brézis-Gallouët-Wainger type inequalities in various function spaces”, Mini-conference on harmonic analysis, アメリカ (2009)
26. “Decompositions of Besov-Hausdorff and Triebel-Lizorkin-Hausdorff spaces”, Pohang 大学 Harmonic Analysis and its Applications at Pohang, 韓国 (2009)
27. “A Note on the Olsen inequality”, 北京師範大学 関数空間とその応用の討論班, 中国 (2009)
28. “Brézis-Gallouët-Wainger type inequalities in various function spaces”, 北京師範大学 関数空間とその応用の討論班, 中国, (2009)
29. “New phase decomposition formula and its applications”, Harmonic analysis and partial differential equations with applications, 中国 (2009)
30. “A note on Olsen’s inequality”, Analysis seminar, Georgia Institute of Technology, アメリカ (2008)
31. “Maximal operator for pseudo-differential operators with homogeneous symbols Mini-conference on harmonic analysis”, アメリカ (2008)
32. “Modulation spaces with A_{loc}^{∞} weights”, WCNA2008 (World Congress of Non-linear Analysis), アメリカ (2008)
33. “Modulation spaces with A_{loc}^{∞} weights”, Second conference on pseudo-differential operators and related topics, スウェーデン (2008)

34. “Fractional integral operators for general measures μ ”, 8th International Conference on Harmonic Analysis and Partial Differential Equations”, El Escorial, Madrid (Spain) June 16-20, 2008, スペイン (2008)
35. “Morrey spaces for non-doubling measures”, SEAMS2007 研究集会, インドネシア (2007)
36. “Decompositions for the Besov-Morrey spaces and the Triebel-Lizorkin-Morrey spaces”, SEAMS2007 研究集会, インドネシア (2007)
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38. “Sharp estimate of the modified maximal operator”, Spring School on Analysis での short communication, チェコ (2007)
39. “Morrey spaces for non-doubling measures”, 21st MINI-CONFERENCE IN HARMONIC ANALYSIS, アメリカ (2006)
40. “Morrey spaces for non-doubling measures”, ICM informal seminar, スペイン (2006)
41. “Fractional integral operator for general measure”, Third International Conference of Applied Mathematics, ブルガリア (2006)
42. “Sharp maximal inequalities and commutators on Morrey spaces with non-doubling measures”, Third International Conference of Applied Mathematics, ブルガリア (2006)
43. “Morrey spaces for non-doubling measures”, Barcelona University, Seminari Analisi, スペイン (2005)

2.2 主要な招待講演

1. “Morrey spaces ”, インドネシア スラバヤ ICoMCos(オンライン)
2. “A thought on generalized Morrey spaces”, OTHA-2019, ロシア (2019)
3. “Interpolation of Morrey spaces”, 2018 Beijing Conference on Harmonic Analysis and its Applications, 中国 (2018)
4. “Interpolation of Morrey spaces”, OTHA-2018, ロシア (2018)
5. “Morrey spaces–Introduction”, 広島大学談話会, 広島 (2017)
6. “Introduction of Morrey spaces”, ISAAC 国際会議, スウェーデン (2017)
7. “Interpolation of Morrey spaces”, Banach spaces and operator theory with applications, ポーランド (2017)

8. “Interpolation of diamond Morrey spaces”, Harmonic Analysis and Applications at Beijing, 中国 (2016)
9. “Morrey 空間の複素補間について”, 京都大学数学教室談話会, 京都 (2015)
10. “Hardy spaces with variable exponents and generalized Campanato spaces”, Recent Advances in Variable Exponent Spaces and Non-linear Problems, AMS Sectional Meeting, ポルトガル (2015)
11. “My Japanese book, Theory of Besov spaces, including a remark on the space $\mathcal{S}'/\mathcal{P}$ ”, ニコルスキー生誕 110 周年研究集会, ロシア (2015)
12. “An introduction to function spaces”, 城崎新人セミナー, 兵庫 (2014)
13. “Hardy spaces with variable exponents”, 43 回イラン数学会, イラン (2012)
14. “Real Inversion Formulas of the Laplace Transform on Weighted Function Spaces”, ラプラス変換の逆問題への応用, National Institute of Mathematical Science, 韓国 (2011)
15. “Singular integral inequalities and natural regularizations”, Taiwan-Japan Joint Workshop on Inverse Problems, 台湾 (2010)
16. “Sharp estimates of the modified Hardy-Littlewood maximal operator on the nonhomogeneous space via covering lemmas”, バンドン工科大学解析セミナー, インドネシア (2011)
17. “Olsen’s inequality and its applications to Schrödinger equations”, 京都大学研究集会 調和解析と偏微分方程式, 京都 (2010)
18. “Morrey spaces for non-doubling measures”, Mathematics colloquim at Macqarie, オーストラリア, (2010)
19. “Maximal operator for pseudo-differential operators with homogeneous symbols”, 京都大学談話会, 京都 (2009)
20. “Morrey spaces for non-doubling measures”, SEAMS 研究集会, インドネシア (2007)
21. “Non-doubling measure と Morrey 空間に関して”, 日本数学会特別講演, 東京 (2006)

2.3 そのほかの招待講演

1. “Introduction to Morrey spaces ”, Harmonic and Spectral Analysis 2020 プラハ (オンライン)
2. “An obsevation of the atomic decomposition of Hardy spaces with variable exponent”, Harmonic Analysis and Applications at Tokyo 2017, 東京 (2017)

3. “Morrey Spaces–complex interpolations and weighted theory”, Harmonic Analysis and Applications at Matsumoto, 長野 (2016)
4. “Morrey Spaces–complex interpolations and weighted theory”, 京都大学 研究集会「調和解析と非線形偏微分方程式」, 京都 (2016)
5. “Three remarks on Morrey spaces and related function spaces”, 2nd East Asian Conference in Harmonic analysis and Applications, 中国 (2014)
6. “An introduction to function spaces”, 福岡複素解析セミナー, 福岡 (2014)
7. “Morrey spaces for non-doubling measures”, 1st East Asian Conference in Harmonic analysis and Applications, 韓国 (2013)
8. “An observation on Hardy spaces”, Harmonic Analysis and its Application at Tokyo 2012, 東京 (2012)
9. “Morrey spaces with non-doubling measures II”, Harmonic Analysis and its Application at Tokyo 2011, 東京 (2011)
10. “New phase decomposition formula and its applications”, 国立中央大学解析セミナー, 台湾 (2010)
11. “A note on Morrey spaces”, Malang 大学解析セミナー, インドネシア (2009)
12. “分数冪積分作用素の有界性について”, 齋藤三郎教授の最終講義, 群馬 (2009)
13. “Maximal operator for pseudo-differential operators with homogeneous symbols”, Harmonic analysis and applications at Tokyo 2008, 東京 (2008)
14. “ラプラス変換の実逆変換への再生核空間の応用”, 京都大学 研究集会「再生核の応用についての研究」, 京都 (2008)
15. “Real Inversion Formulas of the Laplace Transform on Weighted Function Spaces”, 京都大学 研究集会「再生核の応用についての研究」, 京都 (2008)
16. “Various boundedness of fractional integral operators”, 実函数論・函数解析学合同シンポジウム, 神奈川 (2008)
17. “Atomic decomposition for the weighted Morrey spaces”, 京都大学 研究集会「調和解析と偏微分方程式」, 京都 (2007)
18. “Functional differential equations of a type similar to $f'(x) = 2f(2x+1) - 2f(2x-1)$ and its application to Poisson’s equation”, 京都大学 研究集会「関数方程式の解のダイナミクスと数値シミュレーション」, 京都 (2006)
19. “Morrey spaces for non-doubling measures II”, 実解析シンポジウム, 東京 (2006)
20. “doubling 条件を満たさない測度上の Morrey 空間に関して”, 京都大学 研究集会「調和解析と非線形偏微分方程式」, 京都 (2005)

2.4 連続講義, 集中講義

1. “カールソンのフーリエ級数の定理”, 埼玉大学集中講義, さいたま, 2 単位認定, (2021)
2. “Besov 空間, Triebel-Lizorkin 空間入門”, 東京都立大学集中講義, 東京, 2 単位認定, (2021)
3. “Morrey spaces”, コム大学集中講義, イラン, 単位認定はなし (2019)
4. “Generalized Morrey spaces”, バンドン工科大学連続講義, インドネシア, 単位認定はなし, (2018)
5. “Hardy-Littlewood の極大作用素について”, 広島大学集中講義, 広島, 1 単位認定, (2017)
6. “斉次 Besov 空間について”, 京都大学集中講義, 京都, 2 単位認定, (2015)
7. “モレー空間について”, ザンジャン大学連続講義, イラン, 単位認定はなし, (2015)
8. “モレー空間について”, モンゴル国立大学連続講義, モンゴル, 単位認定はなし, (2015)
9. “モレー空間について”, 山形大学集中講義, 山形, 2 単位認定, (2014)
10. “An introduction of Morrey spaces”, ユーラシア中央大学集中講義, カザフスタン, 2 単位認定 (2013)
11. “Theory of Besov spaces”, 京都大学連続講義, 京都, 単位認定はなし, (2009)
12. “Nonhomogeneous 空間上の解析の基礎に関して”, 広島大学連続講義, 広島, 単位認定はなし, (2007)
13. “Carleson の定理の証明について”, 首都大学東京集中講義, 東京, 1 単位認定, (2008)
14. “増大条件を満たしている Radon 測度を備えたユークリッド空間の Littlewood-Paley 理論について”, 広島大学連続講義, 広島, 単位認定はなし, (2007)
15. “Elementary facts for non-doubling analysis”, workshop nonhomogeneous space, Bandung 大学連続講義, インドネシア, 単位認定はなし, (2007)

2.5 研究者のための入門的講義

1. 「研究者としてやっていくためには. 回顧と分析」, 日本学術振興会特別研究員 (DC・PD) への応募に関する説明会プログラム, 首都大学東京 (東京), (2014)

2. 「研究者としてやっていくためには」(英語にて講演), Ahi Evran 大学講演会, Ahi Evran 大学 (トルコ), (2014)
3. 「研究者としてやっていくためには. 回顧と分析」, 日本学術振興会特別研究員 (DC・PD) への応募に関する説明会プログラム, 首都大学東京 (東京), (2013)

3 研究のための海外渡航

3.1 共同研究

1. トルコ (1 週間), キルチェヒール大学 (2018)
2. 中国 (2 週間), 北京師範大学 (2015)
3. 中国 (1 週間), 厦門大学 (2014)
4. トルコ (2 週間), キルチェヒール大学 (2014)
5. インドネシア (1 週間), バンドン工科大学 (2013)

3.2 学会参加

1. 「El Escorial 2012」 (1 週間), スペイン, ホテル El Escorial (2012)
2. 「El Escorial 2018」 (1 週間), スペイン, ホテル El Escorial (2018)
3. 「Thematic program on new trends in harmonic analysis」 (1 週間), カナダ, Fields 研究所 (2008)

4 書籍

1. ベゾフ空間論, 日本評論社, 総ページ数 440 ページ (2011) の改訂版, 出版計画中
2. G. Di Fazio, D.I. Hakim and Y. Sawano, Morrey Spaces. Vol. I. Introduction and applications to integral operators and PDE's. Monographs and Research Notes in Mathematics. CRC Press, Boca Raton, FL, 2020. 479 pp. ISBN: 978-1-4987-6551-0; 978-0-429-08592-5 46-02 (2020)
3. G. Di Fazio, D.I. Hakim and Y. Sawano, Morrey spaces. Vol. II. Introduction and applications to integral operators and PDE's. Monographs and Research Notes in Mathematics. CRC Press, Boca Raton, FL, 2020. 409 pp. ISBN: 978-0-367-45915-4; 978-1-00-302907-6 46-02
4. Y. Sawano, Theory of Besov spaces, Development of Mathematics **56**, Springer, 総ページ数 964 ページ (2018)
5. S. Saitoh and Y. Sawano, Theory of reproducing kernel Hilbert spaces, Development of Mathematics **44**, Springer, 総ページ数 460 ページ (2016)

4.1 教科書

1. 澤野嘉宏, 早わかりルベグ積分, 日本評論社, 総ページ数 210 ページ (2015)
2. 澤野嘉宏, 早わかりベクトル解析, 日本評論社, 総ページ数 195 ページ (2014)
3. 澤野嘉宏, 調和解析への招待, サイエンス社, 168 ページ

4.2 数学一般の書籍 (共同執筆)

1. 澤野嘉宏, 「調和解析」特集名: 現代数学の眺め, サイエンス社, pp. 45–51, 2021 年 6 月号
2. 澤野嘉宏, 「知っておくべき解析学のことば (全微分とアーベル変形の説明)」日本評論社, pp. 20–22, 2014 年 4 月号,
3. 澤野嘉宏, 「ルベグ測度」数学セミナー, pp. 13–19, 2010 年 9 月号
4. 澤野嘉宏, 和田出秀光, 「整数問題 1 題」, 数学セミナー「エレガントな解法を求む」のコーナー 2010 年 8 月号 6 ページにて出題, 2010 年 11 月号 94 ページにて採点, 採点結果の発表および解説
5. 澤野嘉宏, 「この定理が美しい」, 解説文「複素解析の入り口」, 数学書房, pp. 80–89, 2009 年
6. 澤野嘉宏, 「平面幾何学の問題 1 題」, 数学セミナー「エレガントな解法を求む」のコーナー 2009 年 6 月号 6 ページにて出題, 2009 年 9 月号 100 ページにて採点, 採点結果の発表および解説
7. 澤野嘉宏, 解説文「Hölder の不等式」, 数学セミナー, 総ページ数 5 ページ, 2009 年

4.3 教科書の書評

1. 澤野嘉宏, 藤原毅夫 編著: 数学解析第一編, 微分積分学 第 1 巻 改定新編, 総ページ数 3 ページ (2017)

4.4 専門書の書評

1. 澤野嘉宏, Loukas Grafakos: Classical Fourier Analysis, 2nd Ed. & Modern Fourier Analysis, 2nd Ed. (Grad. Texts in Math., 249 & 250), Springer 2008, 2009. xvi+489 ページ, xv+521 ページ, 日本数学会, 145–148 (2011)

4.5 解説書

1. 澤野嘉宏, A note on a maximal dyadic sum operator, 総ページ数 56 ページ調和解析セミナーの報告集の別冊, (2009)

5 受賞

2009 年 日本数学会賞建部賢弘賞奨励賞

6 エディター

1. “Journal of Mathematical Science”, 2021 年 10 月より現在に至る
2. “Bulletin of Malaysian Mathematical Society”, 2021 年 3 月より現在に至る
3. “Journal of Fourier Analysis and Applications”, 2019 年 7 月より現在に至る
4. “Advances in Operator Theory”, 2019 年 1 月より 2020 年 5 月
5. “Journal of Mathematical Inequalities”, 2019 年 1 月より現在に至る
6. “Tokyo Journal of Mathematics”, 2016 年 4 月より 2018 年 3 月および 2019 年 4 月より 2020 年 3 月および 2021 年 4 月より現在に至る
7. “日本数学会雑誌「数学」”, 2015 年 7 月より 2017 年 6 月
8. “Azerbaijan Journal of Mathematics”, 2014 年 4 月より 2020 年 3 月
9. “Journal of function spaces”, 2014 年 12 月より現在に至る
10. “Journal of function spaces, special issue”, 2013 年 7 月より 2014 年 10 月
11. “Journal of Analysis and Applications”, 2013 年 4 月より現在に至る
12. “World Scientific Journal”, 2013 年 4 月より 2016 年 4 月

7 学位授与 (主査, 副査, 国内, 国外)

7.1 修士号

1. 主査 6 名 (首都大学東京 6 名)
2. 副査 20 名 (京都大学 1 名, 首都大学東京 16 名, 中央大学 3 名)

7.2 博士号

1. 主査 4 名
 - 首都大学東京, 論文博士 1 名, 課程博士 2 名※課程博士取得者のうち 1 名は短縮学位を取得.
 - 中央大学, 課程博士 1 名※課程博士取得者のうち 1 名は短縮学位を取得.
2. 副査 6 名 (茨城大学 5 名, International Black Sea University グルジア, 課程博士 1 名)

8 研究委託指導 (国外)

1. パキスタン・チュビリシー大学 1 名 (2015 年度)
2. イラン・ザンジャン大学 1 名 (2016 年度)

9 講義担当科目

1. 「微分積分およびその演習」(学習院大学, 京都大学, 首都大学東京)
2. 「初等整数論」(学習院大学)
3. 「ルベグ積分およびその演習」(京都大学, 首都大学東京)
4. 「確率論」(明治大学, 首都大学東京)
5. 「常微分方程式」(学習院大学, 明治大学, 首都大学東京)
6. 「複素解析」(学習院大学, 首都大学東京)
7. 「関数解析」(学習院大学, 京都大学, 首都大学東京)
8. 「フーリエ解析」(京都大学, 首都大学東京, 広島大学)

10 社会貢献 (エディターを除く)

10.1 オープンキャンパス

1. 「 ε - δ 論法について」(30 分の講義 $\times$ 3), 首都大学東京, 2019 年 11 月予定
2. 「調和解析入門」(40 分の講義), 首都大学東京 (2018)
3. 「紙を使って放物線を作ろう」(10 分の講義), 首都大学東京 (2017)
4. 「不等式入門, 最大最小問題へのアプローチ」(20 分の講義), 首都大学東京 (2016)
5. 「不等式入門, 最大最小問題へのアプローチ」(20 分の講義), 首都大学東京 (2015)
6. 「測度 0 の図形とその性質」(50 分の講義), 高校生のための数学-夏の学校, 首都大学東京 (2014)
7. 「不等式入門」(30 分の講義), 首都大学東京 (2012)
8. 「フェルマーの最終定理について」(30 分の講義) 京都大学 (2011)

10.2 オープンユニバーシティ

1. ルベグ積分入門 (90 $\times$ 4 コマの講義) 首都大学東京, (2014)

11 その他

1. Mathreview の批評子 2006 年より現在に至る
2. 調和解析中央大セミナー組織委員 2014 年より現在に至る