履歴書

武田　紘樹

住所: 〒606-8502
京都市左京区北白川追分町
京都大学理学部物理学第二教室
天体核研究室

電話番号: +81-75-753-3876
E-mail: takeda@tap.scphys.kyoto-u.ac.jp
Web サイト: https://hiroki-takeda.github.io/index.html
生年月日: 1993 年 10 月 5 日

学歴

2018-2021　東京大学大学院理学系研究科物理学専攻博士課程,
Tests of Alternative Theories of Gravity through Gravitational-Wave Polarizations,
取得年月: 2021 年 3 月.

2016-2018　東京大学大学院理学系研究科物理学専攻修士課程,
Development of Monolithic Optical System for Lorentz Invariance Test,
取得年月: 2018 年 3 月.

2012-2016　横浜国立大学理工学部数物・電子情報系学科物理工学 EP,
Proposal of Rayleigh Scattering Length Measurement in Liquid Xenon,
取得年月: 2016 年 3 月.

職歴

2023-現在　特定助教,
京都大学白眉センター.

2023-現在　連携助教,
京都大学大学院理学研究科.

2021-2023　日本学術振興会特別研究員 (PD),
京都大学大学院理学研究科物理学・宇宙物理学専攻 物理第二分野.

2018-2021　日本学術振興会特別研究員 (DC1),
東京大学大学院理学系研究科物理学専攻.

2016-2021　Advanced Leading Graduate Course for Photon Science 生,
東京大学大学院理学系研究科物理学専攻.

受賞歴

2021　GWIC-Braccini Prize Honorable Mention
Gravitational Wave International Committee.

2021　第 76 回年次大会（2021 年）日本物理学会学生優秀発表賞.

2015　横浜国立大学理工学部数物・電子情報系学科成績優秀賞.

2015　横浜国立大学横浜物理工学会同窓会優秀賞.

2014　横浜国立大学理工学部数物・電子情報系学科物理工学 EP I 実習優秀ポスター賞.

助成金

2024-2029　京都大学白眉プロジェクト 研究代表者,
研究題目: コンパクト連星合体からの重力波の偏極モード探査による極限環境での重力理論検証,
総額 1432 万円.

2022-2026　日本学術振興会 若手研究 研究代表者,
研究題目: 重力波伝播過程の偏極モード探査による宇宙論的距離スケールでの重力理論の検証,
総額 360 万円.

2021-2024　日本学術振興会特別研究員 (PD) 特別研究員奨励費 研究代表者,
研究題目: コンパクト連星合体からの重力波偏極モード探査による強重力場での重力理論検証,
総額 364 万円.

2018-2021　日本学術振興会特別研究員 (DC1) 特別研究員奨励費 研究代表者,
研究題目: 光リング共振器を用いた光子のローレンツ不変性検証,
総額 280 万円.

教育歴

2025-	京都大学 理学部物理学科 4 年生 「物理科学課題研究 P5」卒業研究に相当.
2025-	龍谷大学 3-4 年生 非常勤講師「複雑系の科学」.
2022-2023	舞鶴工業高等専門学校 機械工学科 4 年生 非常勤講師「物理学 III(力学)」.
2018-2019	東京大学 理学部 物理学科 学部 3 年 「学生実験 II(ブラウン運動)」TA.
2012-2016	武蔵ゼミナール 進学教室スクール８教室　学習塾講師.

委員等

2026 年 1 月	国際会議「JGRG34」 Local Organizing Committee メンバー.
2025 年 10 月	研究会「ACG2025」 オーガナイザー (chair).
2025 年	白眉センター 部局情報セキュリティ技術責任者.
2025 年 3 月	研究会「Gravitational waves Related workshop in Western Japan」 オーガナイザー (chair).
2024 年	白眉センター HP ワーキンググループ.
2024 年	白眉センター 14 期 PR グループ代表.
2020 年	KAGRA Scientific Congress 学生代表.

所属団体

2019-現在	日本天文学会 会員.
2018-現在	LISA Consortium メンバー.
2017-現在	KAGRA Collaboration.
2016-現在	日本物理学会 会員.

指標

出版物: 著書 2, 主著論文 19 報, 共著論文 66 報, 合計 87 報.

講演: 招待セミナー 12. 国際会議: 口頭発表 12, ポスター発表 6. 国内会議: 口頭発表 0, ポスター発表 0. 合計 30.

アウトリーチ活動: 講演 8. メディア出演 3. 執筆 3. 取材 7. その他 2. 合計 23.

出版物

著書

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2. 武田紘樹, "読んだ瞬間に宇宙の構造が見えてくる宇宙物理学事典（韓国語翻訳版）", ボーナス, 2024-07-10, 200 頁.

論文

1. Tomoya Suzuguchi, Hidetoshi Omiya, Hiroki Takeda, "Possibility of Multi-Messenger Observations of Quasi-Periodic Eruptions with X-rays and Gravitational Waves", arXiv:2505.10488.
2. Hiroki Takeda, Takahiro Tanaka, "Quantum decoherence of gravitational waves", Phys. Rev. D, 111, 104080 (2025). arXiv:2502.18560; DOI: 10.1103/PhysRevD.111.104080
3. Hayato Imafuku, Hiroki Takeda, Atsushi Nishizawa, Daiki Watarai, Kipp Cannon, "Statistical biases in parametrized searches for gravitational-wave polarizations", Phys. Rev. D, 112, 024028 (2025). arXiv:2501.16788; DOI: 10.1103/25ym-x87g
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5. Hiroki Takeda, Shinji Tsujikawa, Atsushi Nishizawa, "Gravitational-wave constraints on scalar-tensor gravity from a neutron star and black-hole binary GW200115", Phys. Rev. D, 109, 104072 (2024). arXiv:2311.09281; DOI: 10.1103/PhysRevD.109.104072
6. Yusuke Manita, Hiroki Takeda, Katsuki Aoki, Tomohiro Fujita, Shinji Mukohyama, "Exploring the spin of ultralight dark matter with gravitational wave detectors", Phys. Rev. D, 109, 095012 (2024). arXiv:2310.10646; DOI: 10.1103/PhysRevD.109.095012
7. Hiroki Takeda, Yusuke Manita, Hidetoshi Omiya, Takahiro Tanaka, "Scalar polarization window in gravitational-wave signals", PTEP, 2023, 073E01 (2023). arXiv:2304.14430; DOI: 10.1093/ptep/ptad082

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9. Hiroki Takeda, Soichiro Morisaki, Atsushi Nishizawa, "Pure polarization test of GW170814 and GW170817 using waveforms consistent with modified theories of gravity", Phys. Rev. D, 103, 064037 (2021). arXiv:2010.14538; DOI: 10.1103/PhysRevD.103.064037
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13. Yuta Michimura, Kentaro Komori, Yutaro Enomoto, Koji Nagano, Atsushi Nishizawa, Eiichi Hirose, Matteo Leonardi, Eleonora Capocasa, Naoki Aritomi, Yuhang Zhao, Raffaele Flaminio, Takafumi Ushiba, Tomohiro Yamada, Li-Wei Wei, Hiroki Takeda, Satoshi Tanioka, Masaki Ando, Kazuhiro Yamamoto, Kazuhiro Hayama, Sadakazu Haino, Kentaro Somiya, "Prospects for improving the sensitivity of the cryogenic gravitational wave detector KAGRA", Phys. Rev. D, 102, 022008 (2020). arXiv:2006.08970; DOI: 10.1103/PhysRevD.102.022008
14. Tomoya Kinugawa, Hiroki Takeda, Ataru Tanikawa, Hiroya Yamaguchi, "Probe for Type Ia Supernova Progenitor in Decihertz Gravitational Wave Astronomy", Astrophys. J., 938, 52 (2022). arXiv:1910.01063; DOI: 10.3847/1538-4357/ac9135
15. Hiroki Takeda, Atsushi Nishizawa, Koji Nagano, Yuta Michimura, Kentaro Komori, Masaki Ando, Kazuhiro Hayama, "Prospects for gravitational-wave polarization tests from compact binary mergers with future ground-based detectors", Phys. Rev. D, 100, 042001 (2019). arXiv:1904.09989; DOI: 10.1103/PhysRevD.100.042001
16. Hiroki Takeda, Atsushi Nishizawa, Yuta Michimura, Koji Nagano, Kentaro Komori, Masaki Ando, Kazuhiro Hayama, "Polarization test of gravitational waves from compact binary coalescences", Phys. Rev. D, 98, 022008 (2018). arXiv:1806.02182; DOI: 10.1103/Phys-

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17. Yuta Michimura, Kentaro Komori, Atsushi Nishizawa, Hiroki Takeda, Koji Nagano, Yutaro Enomoto, Kazuhiro Hayama, Kentaro Somiya, Masaki Ando, “Particle swarm optimization of the sensitivity of a cryogenic gravitational wave detector”, Phys. Rev. D, 97, 122003 (2018). arXiv:1804.09894; DOI: 10.1103/PhysRevD.97.122003
18. Kentaro Komori, Yutaro Enomoto, Hiroki Takeda, Yuta Michimura, Kentaro Somiya, Masaki Ando, Stefan W. Ballmer, “Direct approach for the fluctuation-dissipation theorem under nonequilibrium steady-state conditions”, Phys. Rev. D, 97, 102001 (2018). arXiv:1803.00585; DOI: 10.1103/PhysRevD.97.102001
19. Yuta Michimura, Tomofumi Shimoda, Takahiro Miyamoto, Ayaka Shoda, Koki Okutomi, Yoshinori Fujii, Hiroki Tanaka, Mark A. Barton, Ryutaro Takahashi, Yoichi Aso, Tomotada Akutsu, Masaki Ando, Yutaro Enomoto, Raffaele Flaminio, Kazuhiro Hayama, Eiichi Hirose, Yuki Inoue, Takaaki Kajita, Masahiro Kamiizumi, Seiji Kawamura, Keiko Kokeyama, Kentaro Komori, Rahul Kumar, Osamu Miyakawa, Koji Nagano, Masayuki Nakano, Naoko Ohishi, Ching Pin Ooi, Fabián Erasmo Peña Arellano, Yoshio Saito, Katsuhiko Shimode, Kentaro Somiya, Hiroki Takeda, Takayuki Tomaru, Takashi Uchiyama, Takafumi Ushiba, Kazuhiro Yamamoto, Takaaki Yokozawa, Hirotaka Yuzurihara, “Mirror actuation design for the interferometer control of the KAGRA gravitational wave telescope”, Class. Quant. Grav., 34, 225001 (2017). arXiv:1709.02574; DOI: 10.1088/1361-6382/aa90e3

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1. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “GWTC-4.0: Population Properties of Merging Compact Binaries”, arXiv:2508.18083.
2. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “GWTC-4.0: Updating the Gravitational-Wave Transient Catalog with Observations from the First Part of the Fourth LIGO-Virgo-KAGRA Observing Run”, arXiv:2508.18082.
3. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “GWTC-4.0: Methods for Identifying and Characterizing Gravitational-wave Transients”, arXiv:2508.18081.
4. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “GWTC-4.0: An Introduction to Version 4.0 of the Gravitational-Wave Transient Catalog”, arXiv:2508.18080.
5. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “Open Data from LIGO, Virgo, and KAGRA through the First Part of the Fourth Observing Run”, arXiv:2508.18079.
6. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “Upper Limits on the Isotropic Gravitational-Wave Background from the first part of LIGO, Virgo, and KAGRA’s fourth Observing Run”, arXiv:2508.20721.
7. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “GW231123: a Binary Black Hole Merger with Total Mass 190-265 $M_{\o dot}$”, arXiv:2507.08219.
8. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “All-sky search

for short gravitational-wave bursts in the first part of the fourth LIGO-Virgo-KAGRA observing run” , arXiv:2507.12374.

9. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “All-sky search for long-duration gravitational-wave transients in the first part of the fourth LIGO-Virgo-KAGRA Observing run” , arXiv:2507.12282.
10. LIGO Scientific, VIRGO, KAGRA Collaboration (including Hiroki Takeda), “Search for Continuous Gravitational Waves from Known Pulsars in the First Part of the Fourth LIGO-Virgo-KAGRA Observing Run” , Astrophys. J., 983, 99 (2025). arXiv:2501.01495; DOI: 10.3847/1538-4357/adb3a0
11. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “A Search Using GEO600 for Gravitational Waves Coincident with Fast Radio Bursts from SGR 1935+2154” , Astrophys. J., 977, 255 (2024). arXiv:2410.09151; DOI: 10.3847/1538-4357/ad8de0
12. LIGO Scientific, KAGRA, VIRGO Collaboration (including Hiroki Takeda), “Search for Gravitational Waves Emitted from SN 2023ixf”, Astrophys. J., 985, 183 (2025). arXiv:2410.16565; DOI: 10.3847/1538-4357/adc681
13. LIGO Scientific, Virgo,, KAGRA, Swift, Swift-BAT/GUANO Collaboration (including Hiroki Takeda), “Swift-BAT GUANO Follow-up of Gravitational-wave Triggers in the Third LIGO – Virgo – KAGRA Observing Run” , Astrophys. J., 980, 207 (2025). arXiv:2407.12867; DOI: 10.3847/1538-4357/ad9749
14. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Observation of Gravitational Waves from the Coalescence of a 2.5 – 4.5 M ⊠ Compact Object and a Neutron Star” , Astrophys. J. Lett., 970, L34 (2024). arXiv:2404.04248; DOI: 10.3847/2041-8213/ad5beb
15. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Ultralight vector dark matter search using data from the KAGRA O3GK run” , Phys. Rev. D, 110, 042001 (2024). arXiv:2403.03004; DOI: 10.1103/PhysRevD.110.042001
16. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Search for Eccentric Black Hole Coalescences during the Third Observing Run of LIGO and Virgo”, Astrophys. J., 973, 132 (2024). arXiv:2308.03822; DOI: 10.3847/1538-4357/ad65ce
17. Fermi Gamma-Ray Burst Monitor Team, LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “A Joint Fermi-GBM and Swift-BAT Analysis of Gravitational-wave Candidates from the Third Gravitational-wave Observing Run” , Astrophys. J., 964, 149 (2024). arXiv:2308.13666; DOI: 10.3847/1538-4357/ad1eed
18. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Search for Gravitational-lensing Signatures in the Full Third Observing Run of the LIGO – Virgo Network” , Astrophys. J., 970, 191 (2024). arXiv:2304.08393; DOI: 10.3847/1538-4357/ad3e83
19. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Open Data from the Third Observing Run of LIGO, Virgo, KAGRA, and GEO” , Astrophys. J. Suppl., 267, 29 (2023). arXiv:2302.03676; DOI: 10.3847/1538-4365/acdc9f
20. KAGRA Collaboration (including Hiroki Takeda), “Overview of KAGRA : Data transfer and management” , PTEP, 2023, 10A102 (2023). DOI: 10.1093/ptep/ptad112

21. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "Search for subsolar-mass black hole binaries in the second part of Advanced LIGO's and Advanced Virgo's third observing run", Mon. Not. Roy. Astron. Soc., 524, 5984–5992 (2023). arXiv:2212.01477; DOI: 10.1093/mnras/stad588
22. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "Search for Gravitational-wave Transients Associated with Magnetar Bursts in Advanced LIGO and Advanced Virgo Data from the Third Observing Run", Astrophys. J., 966, 137 (2024). arXiv:2210.10931; DOI: 10.3847/1538-4357/ad27d3
23. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "Model-based Cross-correlation Search for Gravitational Waves from the Low-mass X-Ray Binary Scorpius X-1 in LIGO O3 Data", Astrophys. J. Lett., 941, L30 (2022). arXiv:2209.02863; DOI: 10.3847/2041-8213/aca1b0
24. KAGRA Collaboration (including Hiroki Takeda), "Noise subtraction from KAGRA O3GK data using Independent Component Analysis", Class. Quant. Grav., 40, 085015 (2023). arXiv:2206.05785; DOI: 10.1088/1361-6382/acc0cb
25. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "Search for continuous gravitational wave emission from the Milky Way center in O3 LIGO-Virgo data", Phys. Rev. D, 106, 042003 (2022). arXiv:2204.04523; DOI: 10.1103/PhysRevD.106.042003
26. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "First joint observation by the underground gravitational-wave detector KAGRA with GEO 600", PTEP, 2022, 063F01 (2022). arXiv:2203.01270; DOI: 10.1093/ptep/ptac073
27. KAGRA Collaboration (including Hiroki Takeda), "Performance of the KAGRA detector during the first joint observation with GEO 600 (O3GK)", PTEP, 2023, 10A101 (2023). arXiv:2203.07011; DOI: 10.1093/ptep/ptac093
28. LIGO Scientific, Virgo, KAGRA, CHIME/FRB Collaboration (including Hiroki Takeda), "Search for Gravitational Waves Associated with Fast Radio Bursts Detected by CHIME/FRB during the LIGO – Virgo Observing Run O3a", Astrophys. J., 955, 155 (2023). arXiv:2203.12038; DOI: 10.3847/1538-4357/acd770
29. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO and Advanced Virgo O3 data", Phys. Rev. D, 106, 102008 (2022). arXiv:2201.00697; DOI: 10.1103/PhysRevD.106.102008
30. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), "All-sky search for continuous gravitational waves from isolated neutron stars using Advanced LIGO and Advanced Virgo O3 data", Phys. Rev. D, 106, 102008 (2022). arXiv:2201.00697; DOI: 10.1103/PhysRevD.106.102008
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32. KAGRA Collaboration (including Hiroki Takeda), "The Current Status and Future Prospects of KAGRA, the Large-Scale Cryogenic Gravitational Wave Telescope Built in the Kamioka

Underground”, Galaxies, 10, 63 (2022). DOI: 10.3390/galaxies10030063

33. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Tests of General Relativity with GWTC-3”, arXiv:2112.06861.
34. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run”, Astrophys. J., 932, 133 (2022). arXiv:2112.10990; DOI: 10.3847/1538-4357/ac6ad0
35. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Population of Merging Compact Binaries Inferred Using Gravitational Waves through GWTC-3”, Phys. Rev. X, 13, 011048 (2023). arXiv:2111.03634; DOI: 10.1103/PhysRevX.13.011048
36. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Search for Gravitational Waves Associated with Gamma-Ray Bursts Detected by Fermi and Swift during the LIGO – Virgo Run O3b”, Astrophys. J., 928, 186 (2022). arXiv:2111.03608; DOI: 10.3847/1538-4357/ac532b
37. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “GWTC-3: Compact Binary Coalescences Observed by LIGO and Virgo during the Second Part of the Third Observing Run”, Phys. Rev. X, 13, 041039 (2023). arXiv:2111.03606; DOI: 10.1103/PhysRevX.13.041039
38. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Constraints on the Cosmic Expansion History from GWTC – 3”, Astrophys. J., 949, 76 (2023). arXiv:2111.03604; DOI: 10.3847/1538-4357/ac74bb
39. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Searches for Gravitational Waves from Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs”, Astrophys. J., 935, 1 (2022). arXiv:2111.13106; DOI: 10.3847/1538-4357/ac6acf
40. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “All-sky search for gravitational wave emission from scalar boson clouds around spinning black holes in LIGO O3 data”, Phys. Rev. D, 105, 102001 (2022). arXiv:2111.15507; DOI: 10.1103/PhysRevD.105.102001
41. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “All-sky, all-frequency directional search for persistent gravitational waves from Advanced LIGO's and Advanced Virgo's first three observing runs”, Phys. Rev. D, 105, 122001 (2022). arXiv:2110.09834; DOI: 10.1103/PhysRevD.105.122001
42. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Search for continuous gravitational waves from 20 accreting millisecond x-ray pulsars in O3 LIGO data”, Phys. Rev. D, 105, 022002 (2022). arXiv:2109.09255; DOI: 10.1103/PhysRevD.105.022002
43. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “Search for Subsolar-Mass Binaries in the First Half of Advanced LIGO's and Advanced Virgo's Third Observing Run”, Phys. Rev. Lett., 129, 061104 (2022). arXiv:2109.12197; DOI: 10.1103/PhysRevLett.129.061104
44. LIGO Scientific, Virgo, KAGRA Collaboration (including Hiroki Takeda), “All-sky search

for short gravitational-wave bursts in the third Advanced LIGO and Advanced Virgo run", Phys. Rev. D, 104, 122004 (2021). arXiv:2107.03701; DOI: 10.1103/PhysRevD.104.122004

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2. Hiroki Takeda, "Can gravitational waves keep quantum nature?", Colloquium at Theoretical

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4. Hiroki Takeda, “Gravity Meets Quantum Measurements: Testing General Relativity with Gravitational Waves”, 3rd Joint Workshop on General Relativity and Cosmology, Saitama, Japan, 2025 年 3 月.
5. Hiroki Takeda, “Testing Gravity through Gravitational Wave Observations”, Bottom-up particle and gravity fusion theory and cosmological observations, Niigata University, Niigata, Japan, 2024 年 12 月.
6. Hiroki Takeda, “Testing gravity through gravitational-wave observation of compact binary mergers”, Data Oriented Astronomy 2024, The Institute of Statistical Mathematics, Tokyo, Japan, 2024 年 10 月.
7. Hiroki Takeda, “Observations of gravitational waves from compact binary mergers”, The First Young Researchers’ Workshop on Multi-Messenger Astronomy, Tokyo, Japan, 2024 年 3 月.
8. Hiroki Takeda, “Probing scalar polarizations in gravitational waves”, GW research exchange meeting, online, 2023 年 6 月.
9. Hiroki Takeda, “Scalar polarization window in gravitational-wave signals from compact binary coalescences”, Seminar, Waseda University, Tokyo, Japan, 2023 年 5 月.
10. Hiroki Takeda, “Polarization tests by DECIGO”, 21st DECIGO workshop, online, 2022 年 12 月.
11. Hiroki Takeda, “Consistent search for polarization modes of gravitational waves from generation to detection”, Observational Cosmology Summer Workshop in 2022, Hamamatsu, Japan, 2022 年 8 月.
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3. Hiroki Takeda, Shinji Tsujikawa, Atsushi Nishizawa, “Gravitational-wave constraints on scalar-tensor gravity from a black-hole and neutron star binary”, The 32th Workshop on General Relativity and Gravitation in Japan – JGRG32, Nagoya, Japan, 2023 年 11 月.
4. Hiroki Takeda, Yusuke Manita, Hidetoshi Omiya, Takahiro Tanaka, “Scalar polarizations

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6. Hiroki Takeda, Soichiro Morisaki, Atsushi Nishizawa, "Scalar-tensor mixed polarization search for gravitational waves from compact binary coalescences", Gravitational Wave Physics and Astronomy Workshop 2021, Hannover, Germany, 2021 年 12 月.
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アウトリーチ活動

講演

1. “宇宙、まだ分かってないこと”, 関東 SSH 指定 7 女子高校等研究交流会, 講演, 2025 年 7 月.
2. “何を考えて、何を考えてこなかったか　大学進学から始める非効率のススメ ”, 横浜国立大学博士学生支援, 講演, 2025 年 2 月.
3. “宇宙の謎の前にジェンダーの枠を乗り超えて〜若手物理学者と考える女性の理系進路選択〜”, ふらっと市民セミナー, 講演, 2024 年 7 月.
4. “時空のさざ波で迫る宇宙の深淵　重力波の生成から最先端技術の結晶が成し遂げる検出まで ”, リカレントラーニング講座, 講演, 2023 年 12 月.
5. “時空のさざ波で迫る宇宙の深淵”, 芝浦工業大学柏中学高等学校, 講演, 2023 年 12 月.
6. “一般相対性理論の検証と重力波観測”, KagaQ 月夜サイエンス, 講演, 2023 年 11 月.
7. “宇宙の謎を重力で覗こう”, 女子高生のための京都大学理学部案内, 講演, 2023 年 3 月.
8. “重力波で覗く宇宙”, 箕面自由学園高等学校, 講演, 2022 年 8 月.

出演

1. “研究者のツイッター活用戦略”, 京都大学白眉センター座談会, ゲスト登壇, 2023 年 11 月.
2. “アシタノカレッジ”, TBS ラジオ, ゲスト生出演, 2023 年 2 月.
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執筆

1. “「水星の空は真っ黒」という衝撃事実…宇宙物理学者が解説する「小学生にもわかる地球の空が青い理由」”, プレジデントオンライン, 執筆記事掲載, 2025 年 2 月.
2. “子どもの人気職業「研究者」の知られざる経済事情”, プレジデントオンライン, 執筆記事掲載, 2024 年 4 月.
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取材

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その他

1. “博士アイドル化計画　最終オーディション”, 秋葉原 UDX イベント, 発案・企画, 2023 年 10 月.
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