CURRICULUM VITAE

Kohei Ichikawa

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PROFESSIONAL EXPERIENCE

Associate Drofesson (non tenung treals) at Wasada University, Isnan	Sam 2022 Aug 2026
Associate Professor (non-tenure track) at waseda University, Japan	Sep.2025–Aug.2020
Associate Professor at Tohoku University, Japan	Apr.2023–Aug.2023
Assistant Professor at Tohoku University, Japan	Apr.2018–Mar.2023
Visiting researcher at Max Planck Institute (MPE), Germany	Mar.2021–Mar.2022
Visiting researcher at University of Texas at San Antonio, USA	Oct.2016-Sep.2018
Visiting scholar at Columbia University, USA	Nov.2016-Oct.2018
JSPS postdoctoral research fellow, NAOJ, Japan	Apr.2016–Mar.2018
NAOJ/Hawaii observatory specially appointed research fellow, Japan	Apr.2015–Mar.2016
JSPS graduate student fellow, Kyoto University, Japan	Apr.2012–Mar.2015

EDUCATION

Ph.D. in Astronomy, Kyoto University, Japan (advisor: Yoshihiro Ueda)	Mar.2015
M.S. in Astronomy, Kyoto University, Japan	Mar.2012
B.S. in Astronomy, Kyoto University, Japan	Mar.2010

RESEARCH INTERESTS

- Active galactic nuclei (AGN) their unification, environment, and the structure
- Supermassive Black Holes growth and evolution
- Co-evolution of supermassive black holes and their host galaxies
- Searching extremely variable sources using multi-wavelength data

HONORS AND AWARDS

Talk award at the 9th Early Career Researchers Ensemble Workshop at Tohoku U.	Nov.2022
21st Intelligent COSMOS Award	May.2022
The Young Scientists' Award, The Commendation for Science and Technology by	the MEXT
in Japan (令和4年度 科学技術分野の文部科学大臣表彰, 若手科学賞)	Apr.2022
16th Marcel Grossmann Award (to all MPE members)	Jul.2021
Tohoku University Prominent Research Fellow	Jul.2021
Poster Award at Japan's Young Astronomers Meeting 2013 in Sendai, Japan	Aug.2013
Good Talk Award at East Asia Young Astronomers Meeting 2011 in Jeju, Korea	Feb.2011

CERTIFICATIONS

Completed the Oxford EMI (English as a Medium of Instruction) for teachers Sep.2024

AWARDED SCIENTIFIC GRANTS (TOTAL: ~\$1,324K)

Tohoku U. Ensemble grant (PI: 500k JPY)	2022-2023
Intelligent COSMOS grant (PI: 200k JPY)	2022-2023
NASA Astrophysics Data Analysis Program (ADAP; co-I: \$857,399)	2022-2024
Tohoku U. Kyoso grant (PI: \$13k)	2020-2022

Tohoku U. Young Leader Program grant (PI: \$36k)	201-2022
JSPS KAKENHI grant (Kiban-B) (PI: \$130k)	2020-2023
JST Consortium research grant (PI: \$50k)	2018-2020
NASA grant for NuSTAR cycle-4 (PI: \$58.3k; declined)	Jun.2018
JSPS KAKENHI grant (wakate) (PI: \$32.5k)	Apr.2018–Mar.2021
Tohoku University frontier-research grant (PI: \$75k)	2018-2021
Grant for conference, Foundation for Promotion of Astronomy, (co-I: \$4k) Jul.2017
Inoue science foundation conference support (coI: \$7k)	Jun.2017
JSPS postdoctoral fellow (PI: \$160k)	2016-2019
JSPS KAKENHI grant (start-up), (PI: \$26k)	2015-2017
Grant for conference, Foundation for Promotion of Astronomy, (PI: \$4k)	2014
JSPS graduate student fellow (PI: \$90k)	2012-2015
ACADEMIC SERVICE	
Referee for <i>ApJ</i> (2014–), <i>MNRAS</i> (2019–), <i>PASJ</i> (2020–)	2014–
Reviewer for several telescope proposals	2020-
Time Allocation Committee (TAC) for Subaru telescope	2023-
Editor for The Astronomical Herald (天文月報) in Japan	2019-2023
I led "JWST science special issue" (JWST サイエンス特集)	FebMar.2022
I co-led "SPICA special issue" (SPICA 特集)	NovDec.2020
LOC: "2nd PFS-AGN Town Meeting", NAOJ, Japan	Mar.2025
LOC: "AGN across the sky: new windows opened by HSC and other	wide-field surveys",
Sapporo., Japan	Aug.2024
LOC: "1st PFS-AGN Town Meeting", Waseda U., Japan	Mar.2024
LOC: "UNIONS/JEC Joint Meeting", University of Tokyo, Japan	Jan.2024
SOC: "East Asian Young Astronomers Meeting 2020", Beijing, China	May.2022
LOC: "Galaxy Workshop for the East Asian Collaboration in Future Gene	erations" Jan.2019
SOC/LOC chair for "East Asian Young Astronomers Meeting 2017", Ok	kinawa, Japan 2017
LOC: "Subaru Users' Meeting FY2015", Atami, Japan	Jan.2016
LOC: "Subaru Autumn School 2015", NAOJ	Sep.2015
SOC: "East Asian Young Astronomers Meeting 2015", ASIAA, Taiwan	Feb.2015

INTERNATIONAL PROFESSIONAL AFFILIATIONS/COLLABORATIONS

Member: UNIONS-WISHES (4,500 deg ² wide area survey using Subaru/HSC+Euclid)	2021-
Member: Japanese Euclid Consortium (one of the selected members who can access to	Euclid
internal data)	2021-
Member: eROSITA X-ray survey full member, eROSITA AGN member (who can acc	cess to
the eROSITA internal data)	2021-
Member: eROSITA-Subaru/HSC AGN collaboration	2019-
currently leading two AGN projects (eFEDS-WERGS and eFEDS-DOGs)	
see paper of KI et al. 2023, A&A, 672, A171; Noboriguchi, KI., et al., submitted	
Member: Subaru/HSC WERGS radio galaxy collaboration	2018-
see paper of KI et al. 2021, ApJ, 921, 51; KI et al. 2023, A&A, 672, A171	
Founder: SPinACH (Specialists in Astronomy, Classics, and History); collaboration pl	atform
of history and astronomy (Link: https://sites.google.com/view/spinach-group/en)	2018-
See papers of Murata, KI et al. (2021), PASJ, 73, 197	
Lyu, KI et al. (2023), Geoscience Data Journal	
Member: The BAT AGN Spectroscopic Survey (BASS)	2016-

leading infrared catalog	
see papers of KI et al. 2017, 835, 74 ; KI et al. 2019, ApJ, 870, 31	
Member: GATOS AGN JWST collaboration	2016-
Member: TMT International Science Development Team (ISDT)	2017-
co-PI of TMT/MICHI science group "AGN/BH physics"	2016-
Member: SPICA science team	2019-2020
Member: Los Piratas AGN collaboration	2012-2015
see paper of KI et al. 2015, ApJ, 803, 57	

TEACHING EXPERIENCE

"Physics Laboratory" (Undergraduate, 1st and 3rd year, Waseda U.) Oct.2023-Feb.2024 I lead the physics laboratories on Vacuum (construction of the B-A gauge and checking the vacuum level) for 3rd year level, and light (Young's double slit experiment, polarization, and diffraction) for the 1st year level.

"General Physics B" (Undergraduate, 1st year, Waseda U.) Oct.2023-Feb.2024 This covers the properties on waves (wave function, wave equation, standing waves, and physics on Music instruments) as well as the properties of light (refraction, interference, and diffraction).

"Intermediate E&M" (Undergraduate, 2nd year, Waseda U.) Oct.2023-Feb.2024 This course focuses on multi-dimensional non-relativistic electricity and magnetism. At the end of the course, as an entry to electrodynamics, Maxwell's equations in vacuum, and simple electromagnetic waves are studied.

"Research Design and Analysis" (Undergraduate, 2nd year at Waseda University) Oct.2023-Feb.2024 The introductory subject of experiment planning/information gathering. Students learn to collect information on the topic, plan experiments, and execute analysis and discussion of results in various fields of science. I taught how to conduct research in astronomy through my research on observations of supermassive black holes.

"Astronomy Graduation Research" (Senior at Tohoku University) Apr.2020-Mar.2021 Each student will give a summary 1 hr talk of one chapter of introductory astronomy textbook written in English. Through this course, students will be expected to learn basic knowledge on galaxies and active galactic nuclei. Students will also conduct a basic research project assigned by supervisor(s).

"Astronomy Seminar" (Junior at Tohoku University) Oct.2019-Feb.2020 Each student gives a summary 1 hr talk of one chapter of introductory astronomy textbook written in English. Through this course, students learned basic but essential knowledges on astronomy, such as magnitude, redshift, and the idea of the order-of-magnitude.

"A half year to be Professional Astronomer" (1st yr at Tohoku University) Apr.2019-Sep.2019, Oct.2022-Mar.2023

Through the semester, students have experienced how the professional astronomers conduct research, such as reading papers, picking up the research ideas, analyzing the data or conducting simulations, and giving a presentation of results. Until now, we did a research on "What is the future of our milky way galaxy?" and tried the simulation of the future of the milky way and the Andromeda galaxy collision by using the GADGET simulation code.

Teaching Assistant of "English for Scientific Research"	2011-2012
Level: Undergraduate 2nd year level at Kyoto University	
Teaching Assistant of "Astronomy-Lab"	2010-2011
Level: Undergraduate Junior level at Kyoto University	

MENTORING EXPERIENCE

<u>Postdoctoral fellows</u> -Itsna Khoirul Fitriana (postdoc)

Apr.2022-Aug.2023

Topic: Searching radio AGN in the Subaru/HSC SSP Fields	
-Akatoki Noboriguchi (postdoc; now postdoc at Shinshu University)	Apr.2021–Mar.2022
Topic: Searching obscured AGN using Subaru and eROSITA X-ray satellite	
-Xiaoyang Chen (postdoc; now at NAOJ/ALMA Scientist)	Oct.2019-Mar.2020
rapid SMBH growth using Subaru, AKARI, and NuSTAR	
Papers during the mentoring: Chen, Akiyama, KI et al., 2020a, ApJ, 900, 51,	Chen, KI et al., 2020b,
ApJL, 905, 2	
Graduate Students	
-Janek Pflugradt (Master course at Tohoku U.)	Oct.2020-
Searching fading AGN (Pflugradt, KI, et al. 2022, 938, 75)	
-Hikaru Fukuchi (Master course at Tohoku U.)	Apr.2021-
Searching highly obscured AGN (Fukuchi, KI et al. 2022, 940, 7)	
Undergraduate Students	
-Samip Gauchan (senior at Waseda U.)	Apr.2024–
-Yuta Ishikawa (senior at Waseda U.)	Apr.2024–
-Sakiko Obuchi (senior at Waseda U.)	Apr.2024–
-Hikaru Fukuchi (Senior at Tohoku U.)	Apr.2020-Mar.2021
SMBH growth in galaxy clusters	

PRESS RELEASES

[2] "Discovery of a Dying Supermassive Black Hole Via a 3000-year-long Light Echo" Jun.2021 Our result was featured in several media including Newspapers (Nikkei, LAS PROVINCIA), Magazines (Sky & Telescope, AstroArts) and other internet media (Yahoo! News, SORAE, MyNavi, Nazology). The press conference was held in the 238th AAS meeting and the YouTube link is available here.

[1] Tohoku U. Press release「史上初、太陽系の果てに極めて小さな始原天体を発見」 Jan.2019

OUTREACH ACTIVITIES AND PUBLIC TALKS

Over 10 public talks in Japan and USA for all age ranges (from the elementary school level). I have also launched the outreach community called "Kyoto Science Sequence" to provide the meeting opportunities between graduate students and high-school.

OBSERVING TIME ALLOCATION

PI for

NuSTAR: 80 ksec (cycle-4)
Suzaku: 40 ksec (AO-10), 160 ksec (AO-9)
Subaru: MORICS (S24B, 3nights), FOCAS (S20A, 2 nights; S21A, 2 nights), COMICS (S13B, 2 nights)
Keck (co-PI): LRIS (19B, 1.5 nights, 20B, 1 night)
OAO: KOOLS-IFU (S16A, 1.5 nights)
ALMA: Band-1 (Cycle 11, 3.7 hr)

co-I for *HST*: 6 orbits (Cycle-25); *NuSTAR*: 100 ksec (cycle-7), 100 ksec (cycle-5), 60 ksec (cycle-3); *Suzaku*: 80 ksec (AO-9); ALMA: 15.2 hrs (Cycle-5), 1.7 hrs (Cycle-2); GTC: 7 hrs with CanariCam (S16A); NRO: 20 hrs (S14)

INVITED TALKS AND LECTURES (13 INVITED TALKS)

[13] "Multiwavelength Observations of AGN" (invited lecture)	
Astronomy International Virtual Course at Institut Teknologi Bandung, Indonesia	Aug.2024
[12] "ngVLA as first (radio) quasar excavator?"	
ngVLA SWG3+5 workshop, NAOJ, Japan	Mar.2023

[11] "Recent observational progress on AGN studies"	Aug 2022
TGM-Galaxy workshop 2022, Japan	Aug.2022
[10] "Obscured SMBH assembly using multi-wavelength and wide-field surveys"	
Subaru20, Hawaii, USA	Nov.2019
[9] "Science Cases of AGN/BH physics group using TMT"	
TMT Science forum, Xiamen University, Xiamen, China	Nov.2019
[8] "WERGS: Optically-faint radio galaxies discovered by Subaru/HSC and VLA/FIRST"	
HSC-eROSITA meeting, MPE, Garching, Germany	May.2019
[7] "Observation of Supermassive Black Holes"	
6th SMBH workshop, Kyoto University, Japan	May.2019
[6] "The beginning and ending phase of AGN"	
Kure AGN workshop, Kure college	Feb.2019
[5] "AGN key science cases enabled by TMT/MICHI"	
Galaxy evolution workshop, Tohoku University, Japan	Jun.2016
[4] "Science Cases of MICHI from AGN/BH physics group"	
TMT/MICHI workshop, Kyoto University, Japan	Mar.2016
[3] "Determining the dust torus covering factor using clumpy torus models in IR"	
AGN workshop in the Astro-H Era, Rikkyo University, Japan	Oct.2015
[2] "Current situation of AGN unified model and the torus from the view of mid-IR"	
BH workshop 2015, ISAS, Japan	Aug.2015
[1] "Poster Award Talk"	
Japan's Young Astronomers Meeting, Sendai, Japan	Aug.2013

CONFERENCE TALKS IN INTERNATIONAL CONFERENCES

[40] "Updates and future plans on WERGS projects: Wider area and wavelength coverage	ge"
AGN across the sky: new windows opened by HSC and other wide-field surveys, Hokkaid	do Information
University, Japan	Aug.26.2024
[39] "Quasar/AGN search at $z = 3-10$ revealed by Euclid+UNIONS survey"	
UNIONS and JEC meeting, U of Tokyo, Japan	Jan.26.2024
[38] "Quasar/AGN search at $z = 3-9$ revealed by Euclid+UNIONS survey"	
Subaru in the era of Euclid, NAOJ, Japan	Sep.15.2023
[37] "Radio galaxy catalog in the Subaru/HSC Joint catalog field"	
Tracing the SMBH growth: outlook beyond the HSC-SSP, and future collaborations, H	Kagoshima U.,
Japan (hybrid, zoom)	Dec.2022
[36] "Rapidly growing supermassive black holes in extremely radio-loud galaxies"	
IAU Symposium 373: Resolving the Rise and Fall of Star Formation in Galaxies, Busar	n, South Korea
(hybrid)	Aug.2022
[35] "Rapidly growing supermassive black holes in extremely radio-loud galaxies"	
Physics of relativistic jets on all scales, Busan, South Korea (hybrid)	Aug.2022
[34] "Rapidly growing supermassive black holes in extremely radio-loud galaxies"	
Signature of Cosmic Black Holes in COSPAR general Assembly (hybrid)	Jul.2022
[33] "NuSTAR discovery of a dead quasar engine in Arp 187"	
Ten Years of High-Energy Universe in Focus: NuSTAR 2022, Sardina, Italy (hybrid)	Jun.2022
[32] "eFEDS X-ray view of WERGS: Radio Galaxies selected by the Subaru/HSC an	d VLA/FIRST
survey"	
eROSITA Consortium Meeting 2022 (online)	Jan.2022
[31] "Rapid SMBH growth in the extremely radio-loud galaxies"	
European Astronomical Society meeting 2021 (online)	Jun.2021

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Torus Workshop 2012, University of Texas at San Antonio, USA	Dec.2012
[5] MIR and hard X-ray luminosity correlation of a complete AGN sample in the local univer	se
East Asia AGN workshop 2012, Jeju, Korea	Sep.2012
[4] Disentangling mid-IR power of AGNs: dust tori and host galaxy starburst	
TMT/MICHI workshop, University of Tokyo, Japan	Apr.2012
[3] Mid and Far Infrared properties of a Complete Sample of Local AGNs	
The Second AKARI conference, Jeju, Korea	Feb.2012
[2] AKARI 2.5-5 µm Spectroscopy of Optically Non-Seyfert Ultra/Luminous Infrared Galax	ies
The 5th Korea-Japan Young Astronomers Meeting, Yonsei University, Seoul, Korea	Feb.2012
[1] X-ray and Infrared Connection of AGNs: Cross Correlation of Swift/BAT and AKARI All S	ky Survey
Catalogs	
East Asian Young Astronomers Meeting 2011, Jeju, Korea	Feb.2011

POSTER PRESENTATIONS IN INTERNATIONAL CONFERENCES

[6] Is there a maximum mass for supermassive black holes?	
IAU Focus Meeting 3: Radio galaxies: Resolving the AGN phenomenon, Vienna, Austria	Aug.2018
[5] 3-500 um infrared properties of 70-month Swift/BAT AGN catalog	
Hidden Monsters 2016, Dartmouth College, USA	Aug.2016
[4] Unveiling energy contribution of buried AGNs in infrared galaxies	
Suzaku-MAXI conference 2014, Matsuyama, Japan	Feb.2014
[3] Mid-Infrared properties of hard X-ray selected AGNs in the local universe	
2013 COSMOS Team Meeting, Kyoto, Japan	May.2013
[2] AKARI IRC 2.5-5 um spectroscopy of infrared galaxies over a wide luminosity range	
Global COE symposium 2012, Kyoto, Japan	Feb.2013
[1] X-ray and Mid-Infrared Connection of AGNs: Cross Correlation of Swift/BAT and A	KARI ALL
Sky Survey Catalogs	
Global COE symposium 2010, Kyoto, Japan	Feb.2011

C: SEMINARS AND COLLOQUIA

[24] Colloquium, Science Division at NAOJ, Japan	Jan.2025
[23] Colloquium, University of Tokyo, Komaba Campus., Japan	Jul.2024
[22] Colloquium, University of Tokyo, Hongo Campus., Japan	Jun.2024
[21] Colloquium, NYU Abu Dhabi, UAE	Feb.2024
[20] Colloquium, Tohoku University, Japan	Jul.2022
[19] Kaffeerunde (remote), MPE, Garching, Germany	May.2021
[18] Astro Koten seminar (remote), virtual, Japan	May.2021
[17] Lunch seminar (remote), IPMU, Tokyo, Japan	Jun.2020
[16] Colloquium, NAOJ Mizusawa campus, Iwate, Japan	Jan.2020
[15] Lunch seminar, IPMU, Tokyo, Japan	Jul.2019
[14] Colloquium, ALMA-J office, Tokyo, Japan	Jun.2019
[13] Lunch seminar, ESO Chile office, Santiago, Chile	Dec.2018
[12] Colloquium, University of Diego Portales, Santiago, Chile	Dec.2018
[11] Colloquium, Osaka University, Japan	Nov.2018
[10] Colloquium, Ehime University, Japan	Nov.2018
[9] Astro lunch seminar, KIAA, Beijing, China	Nov.2018
[8] Tristate Postdoc Retreat, Center for Computational Astrophysics, NY, USA	May.2018
[7] Astro Colloquium, Tohoku University, Sendai, Japan	Apr.2018
[6] Astro seminar, University of Texas at San Antonio, TX, USA	Sep.2017
[5] NOAO seminar, NOAO, AZ, USA	Jul.2017
[4] SOFIA colloquium, NASA Ames Research Center, CA, USA	Jan.2017
[3] IoA seminar, University of Tokyo, Japan	Jul.2015

[2]	AGN	sen	ninar,	Hire	oshima	Univ	ersity, Japan	
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[1] ISAS Astrophysics Colloquium, ISAS/JAXA, Japan

Jul.2014 Jun.2014

– Publication List –

As of September 4, 2024, **107** refereed journal papers have been published or in press. Total number of citations are 3124. h-index=30. The more detailed publication information can be obtained from **the link here**.

A: 1ST, CORRESPONDING, OR 2ND AUTHOR REFEREED PAPERS

Total **29** papers have been published as 1st or corresponding (18 papers), 2nd author (11 papers). * is a corresponding author. Total number of citations are 664.

[29] *"TBA"* Fukuchi, H.*, Ichikawa, K.*, Akiyama, M., et al., submitted to ApJ

[28] "TBA"

Noboriguchi, A.*, Ichikawa, K., Toba, Y., et al., submitted to A&A

[27] "Birth of Rapidly Spinning, Overmassive Black Holes in the Early Universe" Inayoshi, K.* & Ichikawa, K., ApJL in press., arXiv:2402.14706

[26] "BASS. XLII. The Relation between the Covering Factor of Dusty Gas and the Eddington Ratio in Nearby Active Galactic Nuclei"

Ricci, C.*, Ichikawa, K., Stalevski, M., et al., 2024, ApJ, 959, 27

[25] "Digitization of Weather Records of Seungjeongwon Ilgi: A Historical Weather Dynamics Dataset of the Korean Peninsula in 1623–1910"

Lyu, Z.*, Ichikawa, K.*, Chen, Y., et al., 2023, Geoscience Data Journal, DOI: https://doi.org/10.1002/gdj3.227

[24] "eROSITA Final Equatorial-Depth Survey (eFEDS): eFEDS X-ray view of WERGS Radio Galaxies selected by the Subaru/HSC and VLA/FIRST survey"

Ichikawa, K.*, Yamashita, T., Merloni, A., et al., 2023, A&A, 672, A171

[23] "H1821+643: The most X-ray and infrared luminous AGN in the Swift/BAT survey in the process of rapid stellar and supermassive black hole mass assembly" Fukuchi, H.*, **Ichikawa, K.***, Akiyama, M., et al., 2022, ApJ, 940, 7

[22] "Finding of a population of active galactic nuclei showing a significant luminosity decline in the past $\sim 10^{3-4}$ yrs"

Pflugradt, J.*, Ichikawa, K.*, Akiyama, M., et al., 2022, ApJ, 938, 75

[21] "Mid-Infrared and Maser Flux Variability Correlation in Massive Young Stellar Object G036.70+00.09" Uchiyama, M.*, Ichikawa, K., Sugiyama, K., et al., 2022, ApJ, 936, 31

[20] "A Wide and Deep Exploration of Radio Galaxies with Subaru HSC (WERGS)– IV. Rapidly Growing (Super-)Massive Black Holes in Extremely Radio-Loud Galaxies" Ichikawa, K.*, Yamashita, T., Toba, Y., et al., 2021, ApJ, 921, 51

[19] "Cometary records revise Eastern Mediterranean chronology around 1240 CE" Murata, K.,*, **Ichikawa, K.***, et al., 2021, PASJ, 73, 197

[18] "NuSTAR Non-detection of a Faint Active Galactic Nucleus in an Ultraluminous IR Galaxy with Kpc-scale Fast Wind"

Chen, X.,*, Ichikawa, K., et al., 2020, ApJL, 905, L2

[17] "Universal transition diagram from dormant to actively accreting supermassive black holes" Inayoshi, K.*, **Ichikawa, K.***, & Ho, L. C., 2020, ApJ., 894, 141

[16] "Dust Destruction by Drift-Induced Sputtering in Active Galactic Nuclei" Tazaki, R.*, & Ichikawa, K., 2020, ApJ., 892, 149

[15] "Dust Destruction by Charging: A Possible Origin of Gray Extinction Curves of Active Galactic

Nuclei"

Tazaki, R.*, Ichikawa, K., & Kokubo, M., 2020, ApJ., 892, 84

[14] "Nustar Discovery of Dead Quasar Engine in Arp 187"

Ichikawa, K.*, Kawamuro, T., Shidatsu, M., et al., 2019c, ApJL, 883, L13

[13] "WISE Discovery of Mid-Infrared Variability in Massive Young Stellar Objects" Uchiyama, M.*, & Ichikawa, K., 2019, ApJ, 883, 6

[12] "Transition of BH feeding from the quiescent regime into star-forming cold disk regime" Inayoshi, K*, Ichikawa, K., Ostriker, J. P., and Kuiper, R., 2019, MNRAS, 486, 5377

[11] "Discovery of Dying Active Galactic Nucleus in Arp 187: Experience of Drastic Luminosity Decline within 10^4 years"

Ichikawa, K.*, Ueda, J., Bae, H-J., et al., 2019b, ApJ, 870, 65

[10]* "BAT AGN Spectroscopic Survey – XI. The Covering Factor of Dust and Gas in Swift/BAT Active Galactic Nuclei"

Ichikawa, K.*, Ricci, C., Ueda, Y., et al., 2019a, ApJ, 870, 31

[9] "Gravitational waves from supermassive black hole binaries in ultra-luminous infrared galaxies" Inayoshi, K*, Ichikawa, K., and Haiman, Z., 2018, ApJL, 863, L36

[8] "Cooling Timescale of Dust Tori in Dying Active Galactic Nuclei" Ichikawa, K.*, & Tazaki, R, 2017, ApJ, 844, 21

[7]* "Quenching of Supermassive Black Hole Growth around the Apparent Maximum Mass" Ichikawa, K.*, & Inayoshi, K., 2017, ApJL, 840, L9

[6] "The Complete Infrared View of Active Galactic Nuclei from the 70 Month Swift/BAT catalog" Ichikawa, K.*, Ricci, C., Ueda, Y., et al., 2017, ApJ, 835, 74

[5] "Signs of active galactic nucleus quenching in a merger remnant with radio jets" **Ichikawa, K.***, Ueda, J., Shidatsu, M., et al., 2016, PASJ, 68, 9

[4] "The Difference in the Torus Geometry between Hidden and Non-Hidden Broad Line Active Galactic Nuclei"

Ichikawa, K.*, Packham, C., Ramos Almeida, C., et al., 2015, ApJ, 803, 57

[3] "AKARI IRC 2.5–5 μm Spectroscopy of Infrared Galaxies Over a Wide Luminosity Range" Ichikawa, K.*, Imanishi, M., Ueda, Y., et al., 2014, ApJ, 794, 139

[2] "Mid and Far Infrared Properties of a Complete Sample of Local Active Galactic Nuclei" Ichikawa, K^{*}., Ueda, Y., Terashima, Y., et al. 2012, ApJ, 754, 45

[1] "Infrared 3–4 μ m Spectroscopy of Nearby PG QSOs and AGN-Nuclear Starburst Connections in High-luminosity AGN Populations"

Imanishi, M.*, Ichikawa, K., Takeuchi, T., et al., 2011, PASJ, 63, 447

B: OTHER REFEREED PAPERS

Total **78** papers have been published or in press. (One out of which is published in Nature Astronomy).

[78] "Little Red Dots: Rapidly Growing Black Holes Reddened by Extended Dusty Flows" Li, Z., et al., (incl. Ichikawa, K., 4th), submitted to ApJ., arXiv:2407.10760

[77] "Ongoing and fossil large-scale outflows detected in a high-redshift radio galaxy: [C II] observations of TN J0924- 2201 at z = 5.174"

Lee, K., et al., (incl. Ichikawa, K., 12th), 2024, ApJ, in press., arXiv:2407.00977

[76] "Euclid. I. Overview of the Euclid mission"

Euclid Collaboration., et al., (incl. Ichikawa, K.), 2024, A&A, in press., arXiv:2405.13491

[75] "Exploring Low-mass Black Holes through Tidal Disruption Events in the Early Universe: Perspectives in the Era of the JWST, Roman Space Telescope, and LSST Surveys" Inayoshi, K., et al., (incl. Ichikawa, K., 5th), 2024, ApJ, 966, 164

[74] "Observational properties of active galactic nucleus obscuration during the peak of accretion growth" Vijarnwannaluk, B., et al., (incl. **Ichikawa, K.**, 12th), 2024, MNRAS, 529, 3610

[73] "[O IV]- and [Ne V]-weak Active Galactic Nuclei Hidden by Compton-thick Material in Late Mergers"

Yamada, S., et al., (incl. Ichikawa, K., 9th), 2024, ApJ, 965, 153

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