

Ho Seong Hwang

Curriculum Vitae

Professor @ Astronomy Program	Tel : +82-2-880-8150
Department of Physics and Astronomy,	E-mail : galaxy79@snu.ac.kr
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1 Gwanak-ro, Gwanak-gu, Seoul 08826, Republic of Korea	

1. Education

- Aug. 2007:** Ph.D. in Astronomy, Seoul National University, Korea (**Advisor:** Myung Gyoon Lee)
Thesis: Dynamics of Galaxy Clusters in Wide-field Galaxy Surveys
- Feb. 2001:** B.S. in Physics, Korea Advanced Institute of Science and Technology (KAIST), Korea

2. Positions

- 2026/03 – Present:** Professor, Seoul National University, Korea
- 2021/03 – 2026/02:** Associate Professor, Seoul National University, Korea
- 2021/04 – Present:** Visiting Scientist, Korea Astronomy and Space Science Institute (KASI), Korea
- 2019/04 – Present:** Associate Member, Korea Institute for Advanced Study (KIAS), Korea
- 2024/07 – 2025/07:** Visiting Associate Professor, Macquarie University, Australia
- 2018/12 – 2021/02:** Staff Scientist, KASI, Korea
- 2014/09 – 2018/12:** Research Professor, KIAS, Korea
- 2011/10 – 2014/08:** Research Fellow, Harvard-Smithsonian Center for Astrophysics, USA
- 2009/05 – 2011/09:** Research Fellow, CEA Saclay, France
- 2007/09 – 2009/04:** Research Fellow, KIAS, Korea

3. Awards

- Oct. 2025 : Academic Award (Korean Astronomical Society)
- Sep. 2024 : 2024 SNU College of Natural Science Excellent Research Award
- Sep. 2023 : 2023 SNU College of Natural Science Excellent Lecture Award
- Dec. 2020 : Elected Member of Young Korean Academy of Science and Technology (Y-KAST)
- Oct. 2019 : Outstanding Young Astronomer Award (Korean Astronomical Society)
- Nov. 2016 : One of 30 promising young Korean scientists (by POSTECH)

4. Research Interests

- Large-scale Structures in the Universe
- Observational Cosmology
- Galaxy Formation and Evolution
- Formation of Galaxy Clusters/Groups
- Environmental Effects on Galaxy Properties
- Infrared Luminous Galaxies
- Galaxy Interactions and Mergers
- Globular Cluster Systems in Galaxies

5. References

Prof. Margaret Geller	Smithsonian Astrophysical Observatory, USA	mgeller@cfa.harvard.edu
Prof. Changbom Park	Korea Institute for Advanced Study, Korea	cbp@kias.re.kr
Prof. Myung Gyoon Lee	Seoul National University, Korea	mglee@astro.snu.ac.kr
Prof. David Elbaz	CEA Saclay, France	delbaz@cea.fr
Prof. Hyung Mok Lee	Seoul National University, Korea	hmllee@snu.ac.kr
Prof. Christophe Pichon	Institut d'astrophysique de Paris, France	pichon@iap.fr
Prof. Kyoung-Soo Lee	Purdue University, USA	soolee@purdue.edu

6. Group Members

Current Postdocs

- Bomi Park (2026.09 -)
- Jeong Hwan Lee (2024.04 -)
- Minje Beom (2026.09 -)
- Dongkok Kim (2026.03 -)

Current Graduate Students

- Gain Lee (Ph.D., 2021.09 -)
- Hyeonuk Bahk (Master/Phd, 2021.09 -)
- Yigon Kim (Phd.D., 2024.03 -)
- Bunkhuoch Ann (SNU, 2024.09 -)
- Sang Hyeok Im (Master/Phd, 2021.03 -)
- Daeun Jeong (Master/Phd, 2021.09 -)
- Minsung Kwon (Master/Phd, 2023.03 -)

Current Undergraduate Interns

- Jiwoo Han (SNU, 2026.06 -)
- Sungmin Bae (SNU, 2026.03 -)
- Dong Hyun Kim (SNU, 2026.03 -)
- SungEun Lee (SNU, 2025.06 -)

Former Postdocs

- Sanghyeon Han (2026.03 - 2026. 06, now at Sejong Univ.)
- Hyein Yoon (2023.12 - 2026.02, now at KASI)

Former Graduate Students

- Dongkok Kim (Ph.D., 2021.03 - 2026.02)
- Soojin Kim (SNU, 2024.09 - 2026. 08)
- Sang Hyeon Han (Master/Phd, 2022.03 - 2026.02)

Former Undergraduate Interns

- Jimin Kwak (KAIST, 2026.06 - 2026.08)
- Gene Yun (UIUC, 2025.06 - 2026.03)
- Hyunjun Na (SNU, 2023.09 - 2025.03)
- Avery Abramson (UT Austin, 2024.06 - 07)
- Hanbee Seo (Univ. of St Andrews, 2023.06 - 08)
- Taewan Kim (SNU, 2021.07 - 2023.02)
- Junghyun Hwang (SNU, 2024.03 - 2026.08)
- Jiwon Jang (SNU, 2022.12 - 2026.02)
- Woosuk Kang (SNU, 2021.12 - 2024.08)
- Yonguk Cho (Kyung Hee Univ., 2024.03 - 06)
- Byungmoo Lim (Postech, 2023.06 - 08)
- Jae Won Lee (PNU, 2022.03 - 08)

7. Professional Service

• Paper Review:

Astrophysical Journal (ApJ), Astrophysical Journal Letters (ApJL),
Monthly Notices of the Royal Astronomical Society (MNRAS), Astronomy & Astrophysics (A&A),
Publications of the Astronomical Society of Japan (PASJ), Journal of the Korean Astronomical Society (JKAS),
Research in Astronomy and Astrophysics (RAA), Astrophysics and Space Science (ASS)

• Proposal Review:

K-GMT Science Program (Gemini/MMT), Canada-France-Hawaii Telescope (CFHT) for Taiwan's TAC,
East Asian VLBI Network (EAVN)/KaVA(KVN and VERA Array), KVN (Korean VLBI Network)

• Workshop and Conference:

LOC for KIAS Workshop on Cosmology and Structure Formation (2008, 2016, 2018),
Organizer for Survey Science Group Workshop (2015–2018),
SOC for East Asia ALMA Science Workshop (2020), Galaxy Evolution Workshop (2020, 2021, 2022)

• Committees:

Strategic Science Plan Working Group Member for Gemini Telescope (2024 -),
Science Advisory Committee for GMACS (the Giant Magellan Telescope Multi-object Astronomical and Cosmological Spectrograph) for the Giant Magellan Telescope (2022 -),
K-GMT Science and Instrument Working Group (2019 -)

• Activities in Academic Societies:

Finance director of the Korean Astronomical Society (KAS, 2025–),
Board member of the Korean Astronomical Society (KAS, 2020–),
Member of the 31st International Astronomical Union General Assembly (IAUGA 2022) Committee,
Secretary of the Committee for the Korean Encyclopedia of Astronomy (with KAS/Naver, 2020) Steering Committee
member for the Nomination of the Astronomical Registry in Joseon Dynasty as UNESCO World Heritage (2022-)
Secretary of the Project in KIAS, "Science with Citizens" (2022 -)

• **Activities in University:**

Vice President of SNU Center for Sports Promotion (2022-2024)

8. Talks in the last 2 years

8.1. Conferences / Colloquia / Lectures

- 2026/08/21 (Inv.)** “*Education in the AI-Digital Era: Directions for Basic Science Education and Educational Policy — With a Focus on Astronomy Education*”, Seoul, Korea (Conference on National Basic Science Policy Agenda and Educational Innovation in the Age of AI)
- 2026/08/09 (Inv.)** “*Galaxies and Cosmology*”, Online, Korea (2026 Korea Astronomy Olympiad Summer Camp)
- 2026/08/01 (Inv.)** “*Citizen Science in Action: Progress of the Mission Galaxy Project*”, Gwacheon National Science Museum, Korea (2026 Conference on Astronomy and Space Science & Astronomy and Space Science Faculty Workshop)
- 2026/07/31 (Inv.)** “*K-SPEC on the Upgraded Himalayan Chandra Telescope?*”, Online, India (HCT-25 celebration: Science meeting)
- 2026/07/15 (Inv.)** “*Galaxy Surveys*”, Yangpyeong Hanhok, Korea (2026 KIAS Astrophysics Summer Institute Lecture)
- 2026/06/30 (Inv.)** “*Mapping the Unseen: Dark Matter in Galaxies and Beyond*”, Sono Belle Hongcheon, Korea (2026 Cosmology Crossroad Workshop)
- 2026/05/27 (Inv.)** “*Mapping the Unseen: Dark Matter in Galaxies and Beyond*”, Sono Belle Yangpyeong, Korea (K-DRIFT Science Workshop)
- 2026/04/09** “*Citizen Science in Action: Progress of the Mission Galaxy Project*”, Suwon Convention Center, Korea (2026 Spring KAS meeting)
- 2026/03/16 (Inv.)** “*Unraveling the Secrets of the Universe with AI: Can We Find an Answer Better Than 42?*”, Yonsei University, Korea (Understand of the Universe Class)
- 2026/01/21 (Inv.)** “*Current Status of K-SPEC for A-SPEC*”, Mona YongPyong, Korea (The 13th Survey Science Group Workshop)
- 2026/01/21 (Inv.)** “*SPECeyes for Cosmology, Galaxies & Clusters*”, Mona YongPyong, Korea (The 13th Survey Science Group Workshop)
- 2025/12/22-24 (Inv.)** “*Dark Worlds in Astronomy: Exploring the Cosmic Mystery of Dark Matter*”, KIAS, Korea (KIAS-SNU Physics Wintercamp 2025)
- 2025/12/17 (Inv.)** “*Dark galaxies with the Square Kilometer Array*”, Busan, Korea (2025 SKA Korea Winter Workshop)
- 2025/11/26** “*Mapping the Unseen: Dark Matter in Galaxies and Beyond*”, KIAS, Korea (KIAS Physics Colloquium)
- 2025/11/24** “*Mapping the Unseen: Dark Matter in Galaxies and Beyond*”, KAIST, Korea (KAIST Physics Colloquium)
- 2025/11/20** “*Dark galaxies and A-SPEC: Missing satellite problem and H_0 tension*”, Gwangju, Korea (2025 Korea Society of High Energy Physics & Nuclear/Particle/Astrophysics Joint Workshop)
- 2025/11/13** “*Galaxies and the Dark Universe with LSST*”, Jechun, Korea (Korean Rubin Science Workshop 2025)
- 2025/10/21 (Inv.)** “*Dark galaxies and A/K-SPEC: Missing satellite problem and H_0 tension*”, Osong, Korea (SPEX + SPACEBEAM Astronomy Seminar)
- 2025/10/15 (Inv.)** “*Mapping the Unseen: Dark Matter in Galaxies and Beyond*”, Jeju, Korea (The 112th Meeting of Korean Astronomical Society)
- 2025/09/22 (Inv.)** “*Dark galaxies and A-SPEC: Missing satellite problem and H_0 tension*”, Seoul, Korea (Future of Multi-Messenger Astronomy and Gravitational Wave Research)
- 2025/08/19 (Inv.)** “*Gemini - Survey Telescope Synergy: A Case Study of Dark Matter*”, KASI, Korea (The 11th K-GMT Summer School: Gemini - Survey Telescope Synergy)
- 2025/07/30 (Inv.)** “*Mapping the Universe of Dark Matter: Tensions in the Standard Cosmological Model*”, IBS, Korea (IBS CTPU-CGA 2025 Summer School and Workshop for High Energy Physics and Cosmology in Korea)
- 2025/05/17 (Inv.)** “*A-SPEC: The All-sky SPECTroscopic survey of nearby galaxies with K-SPEC*”, Sun Yat-Sen University, China (The 2nd SKY (SYSU-KIAS-YNU) Workshop on Large-scale structures)

2025/03/12 “*Dark galaxies and A-SPEC: Missing satellite problem and H_0 tension*”,
University of New South Wales, Australia (Astro Seminar)

8.2. Public Talks

- 84) **2026/08/21-09/19** “*Humans and the Universe*”, Gwanak Library, Korea (Royal Humanities Lecture Series)
- 83) **2026/08/08** “*Dark Matter and Dark Galaxies Encountered While Mapping the Universe*”, Gwacheon National Science Museum, Korea (Universe Academy Talk Series)
- 82) **2026/08/07** “*Humans and the Universe: The People Who Make These Questions Possible*”, Seoul National University, Korea (SNU Liberal Arts Picnic)
- 81) **2026/08/05** “*Understanding Astronomical Telescopes and Building One Yourself*”, Seoul National University, Korea (SNU Natural Science Experience Camp)
- 80) **2026/07/22** “*Cosmic Address and the Future of Astronomy/Space Science*”, Wansan High School, Korea (KAST Special Lecture)
- 79) **2026/06/02** “*What Modern Astronomy Tells us about the Universe and Humans*”, Seoul National University, Korea (SNU Advanced Construction Project Management Program)
- 78) **2026/05/18** “*What Modern Astronomy Tells us about the Universe and Humans*”, Gyeonggi Science High School for the Gifted, Korea (Earth Science ALP)
- 77) **2026/05/12** “*What Modern Astronomy Tells us about the Universe and Humans*”, Hanyang University High School, Korea (Intellectuals’ Bookshelf” Special Lecture)
- 76) **2026/04/25** “*Understanding our Universe with Cosmic Address*”, Seoul National University, Korea (Saturday Lecture Series of SNU College of Natural Sciences)
- 75) **2026/03/18** “*Humans, the Universe, and Choice*”, College of Business Administration at Seoul National University, Korea (Faculty Mentor Seminar)
- 74) **2026/02/23** “*The Universe and I*”, Songchun High School, Korea (Special Lecture)
- 73) **2026/02/11** “*Science with Citizens: Galaxy Research Center for Everyone*”, SNU, Korea (2026 NASE Training of Teachers for Astronomy and Astrobiology)
- 72) **2025/12/20** “*Unlocking Cosmic Secrets with AI: Can It Give a Better Answer than 42?*”, SNU, Korea (The 33rd SNU Public Lecture on Natural Sciences)
- 71) **2025/12/03** “*The Consolation of Astronomy*”, Seoul, Korea (Christmas lecture for Seoul Regional Headquarters of the Korea Railway Workers’ Union)
- 70) **2025/12/03** “*The universe opened not with an answer, but with a question.*”, Gimcheon, Korea (Seminar for Gyeongsangbuk-do Research Association for Gifted Education Curriculum)
- 69) **2025/11/25** “*Cosmic Address and the Future of Astronomy/Space Science*”, Horizon High School, Korea (KAST Special Lecture)
- 68) **2025/11/01** “*Mun Gok Sung, I and Universe*”, SNU Observatory, Korea (2025 Little Gang Gam-chan Program)
- 67) **2025/10/17-19** “*Mun Gok Sung, I and Universe*”, SNU Observatory, Korea (2025 Gwanak-gu Gang Gam-chan Festival)
- 66) **2025/10/01** “*You Cannot Leave for Mars*”, Seodaemun Museum of Natural History, Korea (2024 Best Science Book Lecture Series)
- 65) **2025/09/25** “*Science with Citizens: Galaxy Research Center for Everyone*”, Science with People, Korea (Science Podcast)
- 64) **2025/09/18** “*You Cannot Leave for Mars*”, Asia-Pacific Center for Theoretical Physics, Korea (2024 Best Science Book Lecture Series)
- 63) **2025/09/02** “*What Modern Astronomy Tells us about the Universe and Humans*”, Seoul National University, Korea (SNU Advanced Construction Project Management Program)
- 62) **2025/08/20** “*Dark Galaxies*”, Science with People, Korea (Science Podcast)

9. List of Publication

- 257 refereed papers in total:
8 submitted, 18 as first author, 46 as second author, and 186 as co-author (including 43 corresponding author)

9.1. *Refereed Publications, Submitted*

- 8(C43). **Deep Learning Reconstruction of Dark Matter Distributions in Galaxies from Integral Field Spectroscopy in Simulations**,
Ann, B., **Hwang, H. S.**, et al.,
2026, ApJ, submitted
- 7(C42). **Three-dimensional dark matter mapping in the solar neighbourhood with Gaia Data Release 3 and deep learning**,
Kim, Y., **Hwang, H. S.**, et al.,
2026, MNRAS, submitted
- 6(C38). **The SPHEREx View of Galaxy Clusters: A Simulation-based Validation of the Forced Photometry Pipeline for Extended Sources**,
Bahk, H., **Hwang, H. S.**, et al.,
2026, AJ, submitted (arXiv:2606.19875)
5. **Dark and Luminous Matter in the Coma Cluster: Probing Galaxy Cluster Assembly Through Filaments with Weak Lensing and Multiwavelength Observations**,
HyeongHan, K., et al. (**Hwang, H. S.**),
2026, A&A, submitted (arXiv:2606.12523)
4. **HETDEX: Star Formation Stochasticity Diagram of Lyman Alpha Emitting Galaxies at Cosmic Noon Confirms Three Archetypes**,
Firestone, N., et al. (**Hwang, H. S.**),
2026, ApJL, submitted (arXiv:2607.23062)
- 3(C37). **Unveiling the Flat Rotation Curves of Galaxies out to 1Mpc in a Simulated Λ CDM Universe**,
Jeong, D., **Hwang, H. S.**, et al.,
2026, ApJ, submitted
2. **Comparison of MOND and Verlinde's emergent gravity in dwarf spheroidals**,
Yoon, Y., Han, S., **Hwang, H. S.**,
2026, PRD, submitted (arXiv:2601.01715)
1. **Effect of local environment on Ly α line profile in DESI/ODIN LAEs**,
Uzsoy, A., et al. (**Hwang, H. S.**),
2025, ApJ, submitted (arXiv:2511.17498)

9.2. *Refereed Publications, First Author*

18. **Evolution of star formation rate-density relation over cosmic time in a simulated universe: the observed reversal reproduced**,
Hwang, H. S., Shin, J., Song, H.,
2019, MNRAS, 489, 339
17. **HectoMAP and Horizon Run 4: Dense Structures and Voids in the Real and Simulated Universe**,
Hwang, H. S., Geller, M. J., Park, C., Fabricant, D. G., Kurtz, M. J., Rines, K. J., Kim, J., Diaferio, A., et al.,
2016, ApJ, 818, 106
16. **Comparing Dense Galaxy Cluster Redshift Surveys with Weak Lensing Maps**,
Hwang, H. S., Geller, M. J., Diaferio, A., Rines, J. K., Zahid, J.,
2014, ApJ, 797, 106
15. **Dust Properties of Local Dust-Obscured Galaxies with the Submillimeter Array**,
Hwang, H. S., Andrews, S. M., Geller, M. J.,
2013, ApJ, 777, 38
14. **Dust-Obscured Galaxies in the Local Universe**,
Hwang, H. S., Geller, M. J.,
2013, ApJ, 769, 116
13. **SHELS: Optical Spectral Properties of WISE 22 μ m-selected Galaxies**,
Hwang, H. S., Geller, M. J., Kurtz, M., Dell'Antonio, I., Fabricant, D.,
2012, ApJ, 758, 25

12. **A WISE View of a Nearby Supercluster A2199**,
Hwang, H. S., Geller, M. J., Diaferio, A., Rines, K.,
2012, ApJ, 752, 64
11. **Activity in galactic nuclei of cluster and field galaxies in the local universe**,
Hwang, H. S., Park, C., Elbaz, D., Choi, Y.-Y.,
2012, A&A, 538, 15
10. **GOODS-Herschel: the impact of galaxy-galaxy interactions on the far-infrared properties of galaxies**,
Hwang, H. S., Elbaz, D., Dickinson, M., Charmandaris, V., Daddi, E., GOODS-Herschel team,
2011, A&A, 535, 60
9. **Evolution of Dust Temperature of Galaxies through Cosmic Time as seen by Herschel**,
Hwang, H. S., Elbaz, D., Magdis, G. E., Daddi, E., Symeonidis, M., PEP team, HerMES team, AKARI team
2010, MNRAS, 409, 75
8. **Environmental Dependence of Local Luminous Infrared Galaxies**,
Hwang, H. S., Elbaz, D., Lee, J. C., Jeong, W.-S., Park, C., Lee, M. G., Lee, H. M.,
2010, A&A, 522, 33
7. **Orbital Dependence of Galaxy Properties in Satellite Systems of Galaxies**,
Hwang, H. S., Park, C.,
2010, ApJ, 720, 522
6. **Galaxy Activity in Merging Binary Galaxy Clusters**,
Hwang, H. S., Lee, M. G.,
2009, MNRAS, 397, 2111
5. **Evidence for Morphology and Luminosity Transformation of Galaxies at High Redshifts**,
Hwang, H. S., Park, C.,
2009, ApJ, 700, 791
4. **Galaxy Orbits for Galaxy Clusters in Sloan Digital Sky Survey and 2dF Galaxy Redshift Survey**,
Hwang, H. S., Lee, M. G.,
2008, ApJ, 676, 218
3. **The Globular Cluster System of M60 (NGC 4649). II. Kinematics of the Globular Cluster System**,
Hwang, H. S., Lee, M. G., Park, H. S., Kim, S. C., Park, J.-H., Sohn, Y.-J., Lee, S.-G., Rey, S.-C., et al.
2008, ApJ, 674, 869
2. **Searching for Rotating Galaxy Clusters in SDSS and 2dFGRS**,
Hwang, H. S., Lee, M. G.,
2007, ApJ, 662, 236
1. **The ultraluminous and hyperluminous infrared galaxies in the SDSS, 2dFGRS and 6dFGS**,
Hwang, H. S., Serjeant, S., Lee, M. G., Lee, K. H., White, G. J.,
2007, MNRAS¹, 375, 115

9.3. *Refereed Publications, Second Author*

- 46(C36). **ODIN: Rest-frame Optical Morphologies and Star Formation Activity of Ly α Emitters at $z = 2.4, 3.1$, and 4.5**,
Im, S., Hwang, H. S., et al.,
2026, ApJ, in press (arXiv:2605.29344)
- 45(C35). **Artificial Intelligence-based Galaxy Morphology Classification and Optimal Model Exploration Using Citizen Science Data from Everyone's Galaxy Research Lab Project**,
Park, H. Y., Hwang, H. S., et al.,
2026, PKAS, in press
- 44(C34). **An Enhanced Catalog of Gaia DR3 Galaxy Candidates with Spectroscopic and Machine-Learning Photometric Redshifts**,
Hwang, J., Hwang, H. S.,
2026, JKAS, in press (arXiv:2607.26558)

¹MNRAS: Monthly Notices of the Royal Astronomical Society

- 43(C31). **A New Collision Avoidance Fiber Assignment Algorithm for Robotic Fiber Positioners in Multi-Object Spectroscopy**,
Kwon, M., Hwang, H. S., et al.,
2026, JKAS, 59, 1
- 42(C30). **Searching for Dark Structures: A Comparison of Weak Lensing Convergence Maps and Lensing-Weighted Galaxy Density Maps**,
Kim, S., Hwang, H. S., Jeffrey, N.,
2026, ApJS, 282, 23
41. **Search for Slow Bars in Two Barred Galaxies with Nuclear Structures: NGC 6951 and NGC 7716**,
Lee, Y.H., Hwang, H. S., et al.,
2025, ApJ, 989, 55
- 40(C29). **Searching for Dark Galaxies with HI detection from the Arecibo Legacy Fast ALFA (ALFALFA) survey**,
Kwon, M., Hwang, H. S., et al.,
2025, ApJS, 279, 38
- 39(C28). **A Redshift Survey of the Coma Cluster (A1656): Understanding the Nature of Subhalos in the Weak-lensing Map**,
Kang, W., Hwang, H. S., Okabe, N., Park, C.,
2025, ApJS, 278, 51
- 38(C27). **Understanding the Radial Acceleration Relation of Dwarf Galaxies with Emergent Gravity**,
Han, S., Hwang, H. S., Yoon, Y.,
2024, JKAS, 57, 249
- 37(C26). **Diverse Rotation Curves of Galaxies in a Simulated Universe: the Observed Dependence on Stellar Mass and Morphology Reproduced**,
Jeong, D., Hwang, H. S., Chung, H., Yoon, Y.,
2025, ApJ, 982, 11
- 36(C24). **Testing Lyman Alpha Emitters and Lyman-Break Galaxies as Tracers of Large-Scale Structures at High Redshifts**,
Im, S., Hwang, H. S., et al.,
2024, ApJ, 972, 196
- 35(C22). **A Deep Redshift Survey of the Perseus Cluster: Spatial Distribution and Kinematics of Galaxies**,
Kang, W., Hwang, H. S., et al.,
2024, ApJS, 272, 22
- 34(C21). **UPCluster-SZ: The Updated Catalog of Galaxy Clusters from the List of Planck Sunyaev-Zeldovich Sources**,
Bahk, H., Hwang, H. S.,
2024, ApJS, 272, 7
- 33(C20). **Understanding the Formation and Evolution of Dark Galaxies in a Simulated Universe**,
Lee, G., Hwang, H. S., et al.,
2024, ApJ, 962, 129
32. **BCG alignment with the Locations of Cluster Members and the Large Scale Structure out to $10 R_{200}$** ,
Smith, R., Hwang, H. S., et al.,
2023, MNRAS, 525, 4685
- 31(C19). **The Origin of Star Formation in Early-type Galaxies Inferred from Spatially Resolved Spectroscopy**,
Lee, Y.H., Hwang, H. S., et al.,
2023, ApJ, 953, 88
30. **Metallicity-PAH Relation of MIR-selected Star-forming Galaxies in AKARI North Ecliptic Pole-wide Survey**,
Shim, H., Hwang, H. S., et al.,
2023, AJ, 165, 31
29. **The Evolution of Merger Fraction of Galaxies $z < 0.6$ depending on the Star Formation Mode in the AKARI NEP-Wide field**,
Kim, E., Hwang, H. S., et al.,
2021, MNRAS, 507, 3113

- 28(*C15*). **Searching for Mg II Absorbers in and around Galaxy Clusters**,
Lee, J. C., **Hwang, H. S.**, Song, H.,
2021, MNRAS, 503, 4309
- 27(*C14*). **Star Formation Activity of Galaxies Undergoing Ram Pressure Stripping in the Virgo Cluster**,
Mun, J. Y., **Hwang, H. S.**, Lee, M. G., Chung, A., Yoon, H., Lee, J. C.,
2021, JKAS, 54, 17
- 26(*C13*). **A Redshift Survey of the Nearby Galaxy Cluster Abell 2107: Global Rotation of the Cluster and its Connection to Large-scale Structures in the Universe**,
Song, H., **Hwang, H. S.**, Park, C., Smith, R., Einasto, M.,
2018, ApJ, 869, 124
- 25(*C12*). **A Study of Environmental Effects on Galaxy Spin using MaNGA data**,
Lee, J. C., **Hwang, H. S.**, Chung, H.,
2018, MNRAS, 477, 1567
- 24(*C11*). **Demise of Faint Satellites around Isolated Early-type Galaxies**,
Park, C., **Hwang, H. S.**, Park, H., Lee, J. C.,
2018, NatAs², 2, 162
- 23(*C10*). **Star Formation Activity of Barred Spiral Galaxies**,
Kim, E., **Hwang, H. S.**, Chung, H., Lee, G.-H., Park, C., Cervantes Sodi, B., Kim, S. S.,
2017, ApJ, 845, 83
- 22(*C09*). **A Redshift Survey of the Nearby Galaxy Cluster Abell 2199: Comparison of the Spatial and Kinematic Distributions of Galaxies with the Intracluster Medium**,
Song, H., **Hwang, H. S.**, Park, C., Tamura, T.,
2017, ApJ, 842, 88
21. **The Fastest Galaxy Evolution in an Unbiased Compact Group Sample with WISE**,
Lee, G.-H., **Hwang, H. S.**, Sohn, J., Lee, M. G.,
2017, ApJ, 835, 280
20. **To the Edge of M87 and Beyond: Spectroscopy of Intracluster Globular Clusters and Ultra Compact Dwarfs in the Virgo Cluster**,
Ko, Y., **Hwang, H. S.**, et al.,
2017, ApJ, 835, 212
- 19(*C08*). **A Submillimeter Continuum Survey of Local Dust-Obscured Galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, G.-H.,
2016, ApJ, 833, 188
18. **SHELS: Complete Redshift Surveys of Two Widely Separated Fields**,
Geller, M. J., **Hwang, H. S.**, Dell’Antonio, I., Zahid, H. J., Kurtz, M. J., Fabricant, D. G.,
2016, ApJS, 224, 11
17. **Compact Groups of Galaxies with Complete Spectroscopic Redshifts in the Local Universe**,
Sohn, J., **Hwang, H. S.**, Geller, M. J., Diaferio, A., Rines, K. J., Lee, M. G., Lee, G.-H.,
2015, JKAS³, 48, 381
16. **Schwarzschild Lecture 2014: HectoMAPping the Universe**,
Geller, M. J., **Hwang, H. S.**,
2015, AN⁴, 336, 428
15. **Galaxy Evolution in the Mid-infrared Green Valley: a Case of the A2199 Supercluster**,
Lee, G.-H., **Hwang, H. S.**, Lee, M. G., Sohn, J., Shim, H., Diaferio, A.,
2015, ApJ, 800, 80
14. **The Number Density of Quiescent Compact Galaxies at Intermediate Redshift**,
Damjanov, I., **Hwang, H. S.**, Chilingarian, I., Geller, M. J.,
2014, ApJ, 793, 39
- 13(*C07*). **Tracing Recent Star Formation of Red Early-type Galaxies out to $z \sim 1$** ,
Ko, J., **Hwang, H. S.**, Im, M., Le Borgne, D., Lee, J. C., Elbaz, D.,
2014, ApJ, 791, 134

²NatAs: Nature Astronomy

³JKAS: Journal of Korean Astronomical Society

⁴AN: Astronomische Nachrichten

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