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Ho Seong Hwang
Curriculum Vitae

Staff Scientist	Tel : +82-42-865-2073
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Daejeon 34055, Republic of Korea	https://astro.kias.re.kr/~hshwang/

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

2018/12 – Present: Staff Scientist, Korea Astronomy and Space Science Institute (KASI), Korea
2019/04 – Present: Associate Member, Korea Institute for Advanced Study (KIAS), 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
2004/12 – 2005/04: Visiting Research Associate, School of Physical Sciences, University of Kent, UK
2001/03 – 2003/02: Teaching Assistant, Seoul National University, Korea

3. Awards

- 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)
- Aug. 2007 : Seoul National University Graduate Student Research Award

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. Daniel Fabricant	Smithsonian Astrophysical Observatory, USA	dfabricant@cfa.harvard.edu

6. Observing Experience

- **Optical/Near-IR Imaging**: MMT/MMTcam, AKARI/IRC, BOAO, SOAO
- **Optical/Near-IR Spectroscopy**: Gemini-S/GMOS, MMT/Hectospec, FLWO/FAST, CTIO/R-C SPec., CFHT/MOS, AKARI/IRC
- **Mid/Far-IR, Submillimeter and Radio observations**: SMA, Herschel/PACS/SPIRE, AKARI/IRC

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),
Organaizer for Survey Science Group Workshop (2015−2018),
SOC for East Asia ALMA Science Workshop (2020), Galaxy Evolution Workshop (2020)

• **Activities in Academic Societies**:
Board and Scienticific Committee member of the Korean Astronomical Society (KAS, 2020−2021),
Member of the 31st International Astronomical Union General Assembly (IAUGA2021) Committee,
Secretary of the Committee for the Korean Encyclopedia of Astronomy (with KAS/Naver, 2020−)

8. Talks in the last 3 years

8.1. Conferences / Colloquia / Lectures

2020/12/07 (Inv.) *"Dark Matter Distribution in Galaxy Clusters traced by Galaxies in the Real and Simulated Universe"*, KASI, Korea (The 7th Korea-Japan Workshop on Dark Energy)

2020/11/25 (Inv.) *"A Spectroscopic Survey of Mid-infrared detected galaxies in the AKARI North Ecliptic Pole region"*, Institute of Astronomy and Astrophysics, Academia Sinica (ASIAA), Taiwan (NEP conference 2020)

2020/11/19 (Inv.) *"An MMT/Hectospec Survey of Mid-infrared detected galaxies in the AKARI North Ecliptic Pole region"*, KASI, Korea (K-GMT Science Program Users Meeting 2020)

2020/11/06 (Inv.) *"Cosmic Evolution of Environmental Dependence of Galaxy Properties: Comparison between observations and simulations"*, KIAS, Korea (The 9th KIAS Workshop on Cosmology and Structure Formation)

2020/08/25 (Inv.) *"An Introduction to Submm Continuum Data/Observation of Galaxies"*, KASI, Korea (2020 Submm Summer School)

2020/08/21 *"Development of Multi-Object Spectrographs for the KASI SPECtroscopic Survey of the Local ACCelerating UNiverse (K-SPEC LACCUN)"*, KASI, Korea (Instrumentation for Astronomy and Space Science 2020)

2020/07/27-29 (Inv.) *"Observational Astronomy: External Galaxies"*, KIAS, Korea (Pyeong-Chang Summer Institute Lecture)

2019/11/26 (Inv.) *"The Nobel Prize in Physics 2019: From Cosmology to Exoplanets"*, SookMyung Women's University, Korea (Physics Colloquium Talk)

2019/11/05 (Inv.) *"Evolution of environmental dependence of galaxy properties over cosmic time: comparison between observations and simulations"*, Jiao Tong Univ., China (The first Shanghai Assembly on Cosmology and Galaxy Formation)

2019/10/18 (Inv.) *"Towards a Better Understanding of Structure Formation: Galaxies and Dark Matter"*, KIAS, Korea (2019 Fall KAS meeting)

2019/06/24 (Inv.) *"Infrared Bright Galaxies in Galaxy Redshift Surveys"*, National Tsing Hua University, Taiwan (Future Science with Multi-Wavelength Data: North Ecliptic Pole Meeting 2019)

2019/06/12 *"The MMT/Hectospec Survey of Galaxy Clusters"*, Saint Jones Hotel, Korea (2019 KASI-Yonsei Workshop on Galaxy Clusters)

2019/06/03 *"JINGLE: Current Status and Science Highlights"*, KASI, Korea (2019 Korea JCMT Users Workshop)

2019/03/25 (Inv.) *"Dense Galaxy Redshift Surveys for High-redshift Universe"*, Kavli IPMU, Japan (Extremely Big Eyes on the Early Universe)

2019/03/12 *"Mapping the Galaxy Distribution in and around Galaxy Clusters"*, ASIAA, Taiwan (Panchromatic Panoramic Studies of Galaxy Clusters: from HSC to PFS and ULTIMATE)

2019/02/14 *"The KIAS Redshift Survey of Nearby Galaxy Groups and Clusters with MMT/Hectospec"*, KASI, Korea (K-GMT Science Program Users Meeting 2019)

2019/01/23 *"Combination of Deep Imaging and Spectroscopic Surveys of Galaxy Clusters"*, Yonsei University, Korea (Galaxy Formation Workshop)

2019/01/16 (Inv.) *"Redshift Surveys of Galaxy Clusters with Weak-lensing Maps"*, KASI, Korea (EAO Subaru Science Workshop 2019)

2018/11/29 (Inv.) *"An Infrared/Submillimeter View of the Evolution of Star-forming Galaxies"*, Tsinghua University, China (TsingHua Center for Astrophysics Seminar)

2018/11/22 (Inv.) *"An Infrared/Submillimeter View of the Evolution of Star-forming Galaxies"*, Seoul National University, Korea (Astronomy Colloquium Talk)

2018/11/09 *"HectoMAP and Horizon Run 4: Statistics of cosmic voids in the real and simulated universe"*, KIAS, Korea (The 8th KIAS Workshop on Cosmology and Structure Formation)

2018/10/05 (Inv.) *"Testing the Standard Model of Cosmology with Large-scale Structures in the Real and Simulated Universe"*, University of Seoul, Korea (Physics Colloquium Talk)

2018/09/14 (Inv.) *"The KIAS Redshift Survey of Nearby Galaxy Groups and Clusters: Galaxy Luminosity Function"*, KASI, Korea (Workshop on Environmental Effects on Galaxies in Groups and Clusters)

2018/08/16 *"The JCMT dust and gas In Nearby Galaxies Legacy Exploration (JINGLE): Current Status"*, KASI, Korea (2018 Radio telescope User's Meeting)

2018/08/07 (Inv.) *"HectoMAP and Horizon Run 4: Statistics of Cosmic Voids in the Real and Simulated Universe"*, KASI, Korea (5th Korea-Japan Workshop on Dark Energy: Starobinsky's Universe)

2018/06/26 *"Environmental Dependence of Galaxy Properties in the Framework of the Cosmic Web"*, Naksan Beach Hotel, Korea (Galaxies A to Z Workshop)

2018/06/20 *"Environmental Dependence of Galaxy Properties in the Framework of the Cosmic Web"*, Sejong University, Korea (SDSS Collaboration Meeting 2018)

2018/05/31 (Inv.) *"Environmental Dependence of Galaxy Properties in the Framework of the Cosmic Web"*, Chungnam National University, Korea (Astronomy Colloquium Talk)

2018/05/18 *"Demise of faint satellites around isolated early-type galaxies"*, University of Edinburgh, UK (SPINE Farewell Meeting)

2018/05/16 *"Mapping the Distribution of Galaxies at Intermediate Redshifts: Galaxy Clusters and Large-scale Structure of the Universe"*, University of Edinburgh, UK (ROE Colloquium)

2018/04/18 (Inv.) *"The KIAS Redshift Survey of Nearby Galaxy Groups and Clusters: Galaxy Luminosity Function"*, Resom Forest Resort, Korea (KASI-YONSEI Galaxy Cluster and Cosmology Workshop)

2018/03/22 *"ALMA-related Science at KIAS"*, KIAS, Korea (ALMA Town Hall Meeting 2018)

2018/02/01 *"Current Status of JINGLE"*, Seoul National University, Korea (JCMT Users Meeting 2018)

2018/01/30 *"JINGLE Overview"*, Seoul National University, Korea (JINGLE team meeting 2018)

2018/01/26 (Inv.) *"Environmental Dependence of Galaxy Properties in the Framework of the Cosmic Web"*, Novotel Ambassador Hotel, Korea (New Frontiers in Galaxy Morphology Studies)

2018/01/15 *"Current Status of SDSS-IV/V and DESI"*, High 1 Resort, Korea (The 7th Survey Science Group Workshop)

8.2. Public Talks

30) 2020/08/08 *"A Life of an Astronomer: The Nobel Prize in Physics 2019 (the evolution of the universe and Earth's place in the cosmos)"*, Jamsil Women's High School, Korea (Science Club Lecture)

29) 2020/01/15 *"Astronomical Observatories Around the World"*, Korea Astronomy and Space Science Institute, Korea (2020 Astronomy Academy for School Teachers)

28) 2019/11/21 *"The Nobel Prize in Physics 2019: the evolution of the universe and Earth's place in the cosmos"*, Seoul Museum of Science, Korea

27) 2019/09/11 *"Modern Astrophysics: The Past, Present, and Future of the Universe"*, Jeonbuk Science High School, Korea (Special Lecture)

26) 2019/08/07 *"Astronomical Observatories Around the World"*, Korea Astronomy and Space Science Institute, Korea (2019 Astronomy Academy for School Teachers)

25) 2019/04/21 *"Who protects our Milky Way?"*, Gwacheon National Science Museum, Korea (Happy Science Festival)

24) 2018/12/12 *"Where am I in the vast Universe?"*, Ancheon Middle School in Jinan-gun, Korea

23) 2018/08/17 *"Cosmic Address"*, Duckshin High School in Ganghwa Island, Korea (The Mobile Science Museum)

22) 2018/03/20 *"Astronomy: Literature of a Night Sky"*,
Gwacheon National Science Museum, Korea (Science Academy for Seniors)

9. List of Publication

- 167 refereed papers in total: 5 submitted, 18 as first author, 26 as second author, and 118 as co-author

9.1. Refereed Publications, Submitted

5. **Searching for Mg II Absorbers in and around Galaxy Clusters**,
Lee, J. C., **Hwang, H. S.**, Song, H.,
2020, MNRAS, submitted

4. **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.,
2020, MNRAS, submitted

3. **Cosmological Parameter Estimation from the Two-Dimensional Genus Topology - Measuring the Expansion History using the Genus Amplitude as a Standard Ruler**,
Appleby, S., Park, C., Hong, S., **Hwang, H. S.**, et al.,
2020, ApJ, submitted

2. **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.,
2020, JKAS, submitted

1. **Revealing the Local Dark-Matter Map by Deep Learning**,
Hong, S. E., Jeong D., **Hwang, H. S.**, Kim, J.,
2020, ApJ, submitted (arXiv:2008.01738)

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 μm-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, MNRAS[1], 375, 115

9.3. Refereed Publications, Second Author

26. **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. **A Study of Environmental Effects on Galaxy Spin using MaNGA data**,
Lee, J. C., **Hwang, H. S.**, Chung, H.,
2018, MNRAS, 477, 1567

24. **Demise of Faint Satellites around Isolated Early-type Galaxies**,
Park, C., **Hwang, H. S.**, Park, H., Lee, J. C.,
2018, NatAs[2], 2, 162

23. **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

[1]MNRAS: Monthly Notices of the Royal Astronomical Society
[2]NatAs: Nature Astronomy

22. **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. **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, JKAS[3], 48, 381

16. **Schwarzschild Lecture 2014: HectoMAPping the Universe,** ,
Geller, M. J., **Hwang, H. S.**,
2015, AN[4], 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. **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

12. **SHELS: A Complete Galaxy Redshift Survey with R$\leq$20.6,** ,
Geller, M. J., **Hwang, H. S.**, Fabricant, D. G., Kurtz, M. J., Dell'Antonio, I. P., Zahid, J.,
2014, ApJS[5], 213, 35

11. **A Redshift Survey of the Strong Lensing Cluster Abell 383**,
Geller, M. J., **Hwang, H. S.**, Diaferio, A., Kurtz, M., Coe, D., Rines, J. K.,
2014, ApJ, 7pen83, 52

10. **The Calibration of Star Formation Rate Indicators for WISE Selected Galaxies**,
Lee, J. C., **Hwang, H. S.**, Ko, J.,
2013, ApJ, 774, 62

9. **Activity in Galactic Nuclei of Compact Group Galaxies in the Local Universe**,
Sohn, J., **Hwang, H. S.**, Lee, M. G., Lee, G.-H., Lee, J. C.,
2013, ApJ, 771, 106

8. **The Mid-infrared and Near-Ultraviolet Excess Emissions of Quiescent Galaxies on the Red Sequence**,
Ko, J., **Hwang, H. S.**, Lee, J. C., Sohn, Y.-J.,
2013, ApJ, 767, 90

7. **AKARI Near-Infrared Spectroscopy of Luminous Infrared Galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, M. G., Kim, M., Lee, J. H.,
2012, ApJ, 756, 95

[3]JKAS: Journal of Korean Astronomical Society
[4]AN: Astronomische Nachrichten
[5]ApJS: The Astrophysical Journal Supplement Series

6. **Optical spectral classification of southern ultraluminous infrared galaxies**,
Lee, J. C., **Hwang, H. S.**, Lee, M. G., Kim, M., Kim, S. C.,
2011, MNRAS, 414, 720

5. **AKARI Near-Infrared Spectroscopy of SDSS-selected Blue Early-type Galaxies**,
Lee, J. H., **Hwang, H. S.**, Lee, M. G., Lee, J. C., Matsuhara, H.,
2010, ApJ, 719, 1946

4. **Herschel Unveils a Puzzling Uniformity of Distant Dusty Galaxies**,
Elbaz, D., **Hwang, H. S.**, Magnelli, B., Daddi, E., Aussel, H., PEP team, HerMES team,
2010, A&A[6], 518, L29

3. **Interactions of Galaxies in the Galaxy Cluster Environment**,
Park, C., **Hwang, H. S.**,
2009, ApJ, 699, 1595

2. **Wide-Field Survey of Globular Clusters in M31. II. Kinematics of the Globular Cluster System**,
Lee, M. G., **Hwang, H. S.**, Kim, S. C., Park, H. S., Geisler, D., Sarajedini, A., & Harris, W.E.,
2008, ApJ, 674, 886

1. **The Globular Cluster System of M60 (NGC 4649). I. CFHT MOS Spectroscopy and Database**,
Lee, M. G., **Hwang, H. S.**, Park, H. S., Park, J.-H., Kim, S. C., Sohn, Y.-J., Lee, S.-G., Rey, S.-C., et al.
2008, ApJ, 674, 857

9.4. Refereed Publications, Co-Author

118. **The HectoMAP Redshift Survey: First Data Release**,
Sohn, J., Geller, M., **Hwang, H. S.**, et al.,
2021, ApJ, in press (arXiv:2010.05817)

117. **Beyond halo mass: the role of vorticity-rich filaments in quenching galaxy mass assembly**,
Song, H., Laigle, C., **Hwang, H. S.**, et al.,
2021, MNRAS, in press (arXiv:2009.00013)

116. **The SAMI Galaxy Survey: Kinematics of Stars and Gas in Brightest Group Galaxies; the Role of Group Dynamics**,
Raouf, M., et al. (**Hwang, H. S.**),
2021, MNRAS, in press (arXiv:2012.08634)

115. **An Active Galactic Nucleus Recognition Model based on Deep Neural Network**,
Chen, O. et al. (**Hwang, H. S.**),
2021, MNRAS, in press

114. **Identification of Cosmic Voids as Massive Cluster Counterparts,**,
Shim, J., Park, C., Kim, J., **Hwang, H. S.**,
2021, ApJ, in press (arXiv:2012.03511)

113. **Photometric Redshifts of North Ecliptic Pole Wide Fieldbased on Deep Optical Survey using Hyper Suprime-Cam**,
Ho, C.-C., et al. (**Hwang, H. S.**),
2021, MNRAS, in press (arXiv:2012.02421)

112. **Identification of AKARI infrared sources by Deep HSC Optical Survey: Construction of New Band-Merged Catalogue on the NEP-Wide field**,
Kim, S. J., et al. (**Hwang, H. S.**),
2021, MNRAS, 500, 4078

111. **Tracing the evolution of dust-obscured activity using sub-millimetre galaxy populations from STUDIES and AS2UDS**,
Dudzeviciute, K., et al. (**Hwang, H. S.**),
2021, MNRAS, 500, 942

110. **Extinction-free Census of AGNs in the AKARI/IRC North Ecliptic Pole Field from 23-band Infrared Photometry from space telescopes**,
Wang, T.-W. et al. (**Hwang, H. S.**),
2020, MNRAS, 409, 4068

[6] A&A: Astronomy & Astrophysics

109. **The Velocity Dispersion Function for Quiescent Galaxies in Nine Strong-Lensing Clusters**,
Sohn, J. Fabricant, D., Geller, M. J., **Hwang, H. S.**, Diaferio, A.,
2020, ApJ, 902, 17

108. **Lyα Radiative Transfer: Modeling Spectrum and Surface Brightness Profile of Lyα-emitting galaxies at $z = 3 - 6$**,
Song, H., Seong, K.-I., **Hwang, H. S.**,
2019, ApJ, 901, 41

107. **NEPSC2, the North Ecliptic Pole SCUBA-2 survey: 850-μm map and catalogue of 850-μm selected sources over 2 deg^2**,
Shim, H., et al. (**Hwang, H. S.**),
2020, MNRAS, 498, 5065

106. **CFHT MegaPrime/MegaCam u-band source catalogue of the AKARI North Ecliptic Pole Wide field**,
Huang, K., et al. (**Hwang, H. S.**),
2020, MNRAS, 498, 609

105. **Infrared Galaxies without Optical Counterparts of Subaru Hyper Suprime-Cam in the AKARI North Ecliptic Pole Wide Survey Field**,
Toba, Y. et al. (**Hwang, H. S.**),
2020, ApJ, 899, 35

104. **Cosmological Parameter Estimation from the Two-Dimensional GENUS Topology - Measuring the Shape of the Matter Power Spectrum**,
Appleby, S., Park, C., Hong, S., **Hwang, H. S.**, Kim, J.,
2020, ApJ, 896, 145

103. **Cosmological Information from the Small-scale Redshift Space Distortions**,
Tonegawa, M., et al. (**Hwang, H. S.**),
2020, ApJ, 897, 17

102. **JINGLE: IV. Dust, HI gas and metal scaling laws in the local Universe**,
De Looze, I., et al. (**Hwang, H. S.**),
2020, MNRAS, 496, 3668

101. **Mapping the working of environmental effects in A963**,
Deshev, B., Haines, C., **Hwang, H. S.**, et al.
2020, A&A, 638, 126

100. **SCUBA-2 Ultra Deep Imaging Eao Survey (STUDIES) IV: Spatial clustering and halo masses of 450 μm-selected sub-millimeter galaxies**,
Lim, C.-F. et al. (**Hwang, H. S.**),
2020, ApJ, 895, 104

99. **S2COSMOS: Evolution of Gas Mass with Redshift Using Dust Emission**,
Millard, J. et al. (**Hwang, H. S.**),
2020, MNRAS, 94, 293

98. **Constraining Cosmology with Big Data Statistics of Cosmological Graphs** ,
Hong, S., Jeong, D., **Hwang, H. S.**, et al.,
2020, MNRAS, 493, 5972

97. **SCUBA-2 Ultra Deep Imaging Eao Survey (STUDIES) III: Multi-wavelength properties, luminosity functions and preliminary source catalog of 450-μm-selected galaxies**,
Lim, C.-F. et al. (**Hwang, H. S.**),
2020, ApJ, 889, 80

96. **The impact of the connectivity of the cosmic web on the physical properties of galaxies at its nodes**,
Kraljic, K. et al. (**Hwang, H. S.**),
2020, MNRAS, 491, 42194

95. **Multi-wavelength properties of radio and machine-learning identified counterparts of submillimeter sources from S2COSMOS,**,
An, F. et al. (**Hwang, H. S.**),
2019, ApJ, 886, 48

94. **The Impact of the Dynamical State of Galaxy Groups on the Stellar Populatios of Central Galaxies**,
Raouf, M. et al. (**Hwang, H. S.**),
2019, ApJ, 887, 264

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