

Curriculum Vitae
Tomotsugu Goto

Associate Professor,
Institute of Astronomy, National Tsing Hua University
No. 101, Section 2, Kuang-Fu Road, Hsinchu, Taiwan 30013
Phone/Fax:+886-3-57 42682,
Email: tomo@phys.nthu.edu.tw

Education:

- * University of Tokyo, Ph.D., Physics, 2003 (Adviser: Sadanori Okamura, Maki Sekiguchi)
- * University of Tokyo, M.A., Physics, 2001 (Adviser: Maki Sekiguchi)
- * Kyoto University, B.S., Faculty of Science, 1999
- * Visiting Research Scholar at Carnegie Mellon University, 2001-2003

Positions:

- Associate Professor, Institute of Astronomy, National Tsing Hua University, 2013/12-Present
- Dark Fellow, Dark Cosmology Centre, Niels Bohr Institute, University of Copenhagen, 2012/06-2013/12
- Japan Society of Promotion of Science SPD Research Fellow¹, Institute for Astronomy, University of Hawaii, 2008/04-2012/05
- Aerospace Project Research Associate, ISAS/JAXA (Japan), 2005/04-2008/03
- Associate Research Scientist, ACS Science team, Department of Physics & Astronomy, Johns Hopkins University (US), 2004/09-2005/03
- Assistant Research Scientist, ACS Science team, Department of Physics & Astronomy, Johns Hopkins University (US), 2003/09-2004/08
- Japan Society of Promotion of Science Research Fellow, 2001-2003 (Visiting Research Scholar at Carnegie Mellon University,US)

Awards:

- Japan Society of Promotion of Science Research Fellow (SPD¹), 2008-2010
- A PASJ Excellent Paper Award to “The Environment of Passive Spiral Galaxies in the SDSS”, Goto et al. et al. 2003,PASJ²,55,757
- Japan Society of Promotion of Science Research Fellow (DC1), 2001-2003
- Japan Ikuei-kai Fellowship, 1999-2001

Awarded Grants:

¹Oversubscription rate for the SPD fellow in physics was 761 in the year of 2007.

²PASJ: Publications of the Astronomical Society of Japan

- 2016-2019: Taiwan Ministry of Science and Technology research grant, "Revealing cosmic star formation history with AKARI space infrared telescope", USD 151,000.
- 2014-2016: Taiwan Ministry of Science and Technology research grant, "Revealing cosmic reionization using supermassive black holes at $6 < z < 8$ ", USD 94,100.
- 2011: Co-I of a Herschel observation, "THE HERSCHEL-AKARI NEP DEEP SURVEY: the cosmological history of stellar mass assembly and black hole accretion", 73.5 hours, USD33,000
- 2011: Co-I of a Herschel observation, "A deep PACS survey of AKARI-Deep field south: Revealing the connection between AGN and star formation", 34.5 hours, USD11,000
- 2008-2010: Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research, USD98,900
- 2006-2007: Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research, USD20,600
- 2006: Foundation for Promotion of Astronomy, USD6,782
- 2006: Sasagawa Science Fund, USD4,434
- 2005: Hayakawa fund, USD2,000
- 2005: National Astronomical Observatory of Japan, Research Collaboration Fund, USD2,000
- 2001-2003: Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research, USD30,000

Teaching experience:

At NTHU, I have taught the following classes.

- Galactic Astronomy
- Introduction to Modern Cosmology
- Cosmology
- Literature review in astronomy
- Frontier of Astrophysics Seminars I,II
- Astronomy Colloquium

Projects lead:

I have planned and lead the following science projects. Each project was funded by the research grants mentioned above. During the course of the projects, I have mentored 6 graduate students in total, resulting in 8 refereed publications by the students. Currently I supervise a group of two graduate students, and three postdocs.

- A search for the highest redshift QSOs (supermassive black holes).
This project was funded by the JSPS and the MoST. We recently found one of the most distant supermassive black hole at $z=6.6$, and a student I supervised published a paper (Tang et al. 2017). Previously I found two new QSOs at $z\sim 6$. I published 5 papers.

- Revealing cosmic star formation history hidden by the dust. This project is currently funded by the MoST. In collaboration with Japanese colleagues, I have launched infrared space telescope, AKARI. With this telescope, we can reveal dust-hidden cosmic star-formation history previously unnoticed. I have published 6 papers on this project so far.
- Creating the largest galaxy cluster catalog using the SDSS data and revealing cluster galaxy evolution.
This project was funded by the JSPS, and resulted in 8 refereed publications by myself, and 2 by students. The resulting galaxy cluster catalog was the largest at the time of publication, and used by researchers all over the world.
- Revealing the physical origin of post-starburst (E+A) galaxies.
This project was funded by the JSPS, and Sasagawa Science Fund. Resulted in 6 publications by myself, 2 by students, and 2 by collaborators all in refereed international journals. Another paper by a student is in the refereeing process. We have created the largest catalog of post-starburst (E+A) galaxies, which have been used around the world.

Referring experience:

I am one of the most active reviewers in the field. I referee in average 5 papers a year for the following journals:

ApJ,AJ,MNRAS,A&A, PASP,PASJ, JKAS³,

Technical expertise:

- I am familiar with the following astronomy software/languages: IRAF, AIPS, IDL, C, FORTRAN, SuperMongo, Perl, JAVA, and Python. I have contributed to the development of the SDSS galaxy deblending algorithm, and the AKARI all sky survey data reduction pipeline. I also have contributed to the operation of the AKARI spacecraft as a manager of a daily link to the satellite.

³Journal of Korean Astronomical Society

List of Publications of Tomotsugu Goto

Summary: I have published 40 first author papers in refereed journals since I started astronomy. Total citations to my 40 first author papers are 1720 (7463 for all 164 refereed publications), with h -index of 43. These are one of the top numbers in the field. I believe these citation records show my publications are of high quality. My paper on unusual passive-spiral galaxies received the PASJ award for excellence. Four of my papers were press-releases in the past. Most recent is on the discovery of 100 distant QSOs at $z \sim 6$ by NTHU. My full publication list is presented first from 1st author publications, followed by non-first author publications in counter-chronological order. Publications by students I mentored are marked with \diamond .

(First author refereed publications, listed in counter-chronological order).

1. Infrared luminosity functions based on 18 mid-infrared bands: revealing cosmic star formation history with AKARI and Hyper Suprime-Cam
Goto, T. et al., 2019, accepted for publication in PASJ AKARI special issue⁴
2. No Ly α emitters detected around a QSO at $z=6.4$: Suppressed by the QSO?
Goto, T. et al., 2017, MNRAS, 470L, 117⁵
3. Hyper Suprime-Camera Survey of the Akari NEP Wide Field
Goto, T. et al., 2017, PKAS⁶, 32, 225
4. CO luminosity - line width correlation of sub-millimeter galaxies and a possible cosmological application
Goto, T. and Toft. S. 2015, A&A, 579, 17⁷,
A short explanation video is at <https://youtu.be/scWMFurOJi8>
5. Evolution of mid-infrared galaxy luminosity functions from the entire AKARI NEP-Deep field with new CFHT photometry
Goto, T. et al., 2015, MNRAS, 452, 1684,
A short explanation video is at <https://youtu.be/ZFYIIPg28E8>
6. Cosmic Star Formation History and AGN Evolution Near and Far: AKARI Reveals both
Goto, T. et al. 2012c, Publications of The Korean Astronomical Society, 27, 4, 347
7. Cross-correlation of WISE Galaxies with the Cosmic Microwave Background
Goto, T. et al. 2012b, MNRAS, 422L, 77
8. Spectroscopy of the spatially-extended Ly α emission around a QSO at $z=6.4$
Goto, T. et al. 2012a, MNRAS, 421L, 77
9. A Gunn-Peterson test with a QSO at $z=6.4$
Goto, T. et al. 2011c, MNRAS, 415L, 1
10. Infrared Luminosity Functions of AKARI-SDSS Galaxies
Goto, T. et al. 2011b, MNRAS, 414, 1903

⁴PASJ: Publications of the Astronomical Society of Japan

⁵MNRAS: Monthly Notices of the Royal Astronomical Society

⁶PKAS: Publications of The Korean Astronomical Society

⁷A&A: Astronomy & Astrophysics

11. Luminosity Functions of Local Infrared Galaxies Revisited: Implications to the Cosmic Star Formation History and AGN Evolution
Goto, T. et al. 2011a, MNRAS, 410, 573
(A part of this result was a press release by JAXA/ESA⁸, along with the AKARI catalog release.)
12. Evolution of Infrared Luminosity functions of Galaxies in the AKARI NEP-Deep field: Revealing the cosmic star formation history hidden by dust
Goto, T. et al. 2010, A&A⁹ AKARI special issue, 514A, 6
13. Environmental dependence of $8\mu\text{m}$ luminosity functions of galaxies at $z\sim 0.8$: Comparison between RXJ1716.4+6708 and the AKARI NEP deep field
Goto, T. et al. 2010, A&A AKARI special issue, 514A, 7
14. A QSO host galaxy and its Ly α emission at $z=6.43$
Goto, T. et al. 2009, MNRAS, 400, 843
(This paper was a press-release by the University of Hawaii¹⁰. See Fig.2)
15. Galaxy Clusters at $0.9 < z < 1.7$ in the AKARI NEP deep field.
Goto, T. et al. 2008, PASJ ,60,531, AKARI special issue
16. Spatially-Resolved Medium Resolution Spectroscopy of an Interacting E+A (post-starburst) System with the Subaru telescope
Goto, T., Yagi,M., Yamauchi, C., MNRAS, 2008, 391, 700
17. Integrated field spectroscopy of E+A (post-starburst) galaxies with the Kyoto3DII
Goto, T. et al. 2008,MNRAS, 2008, 386, 1355
18. A Catalog of Local E+A(post-starburst) Galaxies selected from the Sloan Digital Sky Survey Data Release 5
Goto, T. 2007,MNRAS, 381,187
19. Abundance diagnosis of E+A (post-starburst) galaxies
Goto, T. 2007,MNRAS, 377,1222
20. Discovery of a new high redshift QSO at $z=5.96$ with the Subaru telescope
Goto, T. 2006,MNRAS, 371,769 (This paper was a press-release by Subaru¹¹.)
21. Deep J-band imaging of high redshift QSO candidates with the Himalayan Chandra Telescope
Goto, T. 2006,BASI¹², 34,291
22. Post-starburst–AGN Connection: Spatially Resolved Spectroscopy of H δ -Strong AGNs
Goto, T. 2006,MNRAS,369,1765
23. Optical Properties of 4248 IRAS Galaxies
Goto, T. 2005,MNRAS,360,322

⁸See <http://sci.esa.int/science-e/www/object/index.cfm?fobjectid=46769>

⁹A&A: Astronomy & Astrophysics

¹⁰See <http://www.ifa.hawaii.edu/info/press-releases/BlackHole/>

¹¹See <http://www.subarutelescope.org/Pressrelease/2006/08/29/index.html>

¹²BASI: Bulletin of the Astronomical Society of India

24. Velocity Dispersion of 335 Galaxy Clusters Selected from the Sloan Digital Sky Survey: Statistical Evidence for Dynamical Interaction, and Against Ram-Pressure Stripping
Goto, T. 2005,MNRAS,359,1415
25. 266 E+A galaxies selected from the Sloan Digital Sky Survey Data Release 2: the origin of E+A galaxies
Goto, T. 2005,MNRAS,357,937
26. The Luminosity Functions of the Galaxy Cluster MS1054-0321 at $z=0.83$ based on ACS Photometry
Goto, T. et al. 2005,ApJ¹³,621,188
27. Do star formation rates of galaxy clusters depend on mass?: blue/late-type fractions, total star formation rates of 115 galaxy clusters as a function of cluster virial mass
Goto, T. 2005,MNRAS,356L,6
28. Are E+A galaxies dusty-starbursts?: VLA 20 cm radio continuum observation
Goto, T. 2004,A&A,427,125
29. Evolution of the Colour-radius and Morphology-radius Relations in SDSS Galaxy Clusters
Goto, T. et al. 2004,MNRAS,348,515
30. The Morphology-Density Relation in the Sloan Digital Sky Survey
Goto, T. et al. 2003,MNRAS,346,601
31. H δ -Strong Galaxies in the Sloan Digital Sky Survey I: The Catalog
Goto, T. et al. 2003,PASJ,55,771
32. The Environment of Passive Spiral Galaxies in the SDSS
Goto, T. et al. 2003,PASJ,55,757. **(This paper received the PASJ excellent paper award.)**
33. The Morphological Butcher-Oemler Effect in the SDSS Cut&Enhance Galaxy Cluster Catalog
Goto, T. et al. 2003,PASJ,55,739
34. Composite Luminosity Functions of the Sloan Digital Sky Survey Cut & Enhance Galaxy Cluster Catalog
Goto, T. et al. 2002,PASJ,54,515
35. The Cut & Enhance method : selecting clusters of galaxies from the SDSS commissioning data
Goto, T. et al. 2002,AJ¹⁴,123,1807

Non-first author refereed publications in counter-chronological order

Publications by students/postdocs I mentored are marked with \diamond .

36. Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies
 \diamond Hashimoto, T.,..., Goto, T., et al., 2018, MNRAS, 475, 4424

¹³ApJ : The Astrophysical Journal

¹⁴AJ: The Astronomical Journal

37. The infrared luminosity function of AKARI 90 μm galaxies in the local Universe
 ◇ Kilerci Eser, E., Goto, T., 2018, MNRAS, 474, 5363
38. An extinction-free AGN selection by 18-band SED fitting in mid-infrared in the AKARI NEP deep field
 ◇ Huang, Ting-Chi, Goto, T., et al., 2018, MNRAS, 471, 4239
39. The mass-metallicity relation of AKARI-FMOS infrared galaxies at $z \sim 0.88$ in the AKARI North Ecliptic Pole Deep Survey Field
 Oi, N., Goto, T., et al., 2017, PASJ, 69, 70
40. Far-infrared Properties of Infrared-bright Dust-obscured Galaxies Selected with IRAS and AKARI Far-infrared All-sky Survey
 Toba, Y., ..., Goto, T., et al., 2017, ApJ, 840, 21
41. ◇ A Quasar Discovered at redshift 6.6 from Pan-STARRS1
 Tang, J.-J., Goto, T., et al., 2017, MNRAS, 466, 4568
 (A paper by a student I supervised)
42. [Ultra] luminous infrared galaxies selected at 90 μm in the AKARI deep field: a study of AGN types contributing to their infrared emission
 Malek, K., ..., Goto, T., et al., 2017, A&A, 598A, 1
43. Subaru High- z Exploration of Low-luminosity Quasars (SHELLQs). I. Discovery of 15 Quasars and Bright Galaxies at $5.7 < z < 6.9$
 Matsuoka, Y., ..., Goto, T., et al. 2016, ApJ, 828, 26
44. The Subaru FMOS galaxy redshift survey (FastSound). II. The emission line catalog and properties of emission line galaxies
 Okada, H., ..., Goto, T., et al. 2016, PASJ, 68, 47
45. The Subaru FMOS galaxy redshift survey (FastSound). IV. New constraint on gravity theory from redshift space distortions at $z \sim 1.4$
 Okumura, T., ..., Goto, T., et al. 2015, PASJ, 68, 38
(This paper was a press-release by the Subaru telescope¹⁵).
46. The Subaru FMOS Galaxy Redshift Survey (FastSound). III. The mass-metallicity relation and the fundamental metallicity relation at $z \sim 1.4$,
 Yabe, K., ..., Goto, T., et al., 2015, PASJ, 67, 102
47. Mid-infrared luminosity function et al. of local star-forming galaxies in the North Ecliptic Pole-Wide survey field of AKARI
 Kim, S.J., ..., Goto, T., et al. 2015, MNRAS, 454, 1573
48. Hyper-luminous dust-obscured galaxies discovered by the Hyper Suprime-Cam on Subaru and WISE,
 Toba, Y., ..., Goto, T., et al., 2015, PASJ, 67, 86
49. The Subaru FMOS galaxy redshift survey (FastSound). I. Overview of the survey targeting H α emitters at $z \sim 1.4$,
 Tonegawa, M., ..., Goto, T., et al., 2015, PASJ, 67, 81

¹⁵See <http://subarutelescope.org/Pressrelease/2016/05/10/index.html>

50. Clustering of the AKARI NEP deep field $24\mu\text{m}$ selected galaxies,
Solarz, A.,...,Goto, T., et al., 2015, A&A, 582, A58
51. VLT/X-Shooter spectroscopy of the afterglow of the Swift GRB 130606A. Chemical abundances and reionisation at $z\sim 6$,
Hartoog, O. E.,...,Goto, T., et al., 2015, A&A, 580, A139
52. Rest-frame Optical Spectra and Black Hole Masses of $3 < z < 6$ Quasars,
Jun, H.,..., Goto, T., et al. 2015,ApJ,806,109
53. Dust attenuation up to $z\sim 2$ in the AKARI North Ecliptic Pole Deep Field
Buat, V, ,..., Goto, T., et al. 2015,A&A,577,A141,14
54. Chandra survey in the AKARI North Ecliptic Pole Deep Field - I. X-ray data, point-like source catalogue, sensitivity maps, and number counts
Krumpe, M, ,..., Goto, T., et al. 2015,MNRAS,446,911
55. \diamond Ultraluminous Infrared Galaxies in the AKARI All-sky Survey
Kilerci Eser, E, Goto, T., Doi, Y. 2014,ApJ,797,54
56. The 2-24 μm source counts from the AKARI North Ecliptic Pole survey
Murata,K.,..., Goto, T., et al. 2014,MNRAS,444,2346
57. The first source counts at 18 μm from the AKARI NEP Survey
Pearson, C., ,..., Goto, T., et al. 2014,MNRAS,444,846
58. Polycyclic aromatic hydrocarbon feature deficit of starburst galaxies in the AKARI North Ecliptic Pole Deep field
Murata, K., ,..., Goto, T., et al. 2014,A&A,566A,136
59. Optical - near-infrared catalog for the AKARI north ecliptic pole Deep field
Oi,N.,..., Goto, T., et al. 2014,A&A,566A,60
60. A study of selection methods for $\text{H}\alpha$ -emitting galaxies at $z\sim 1.3$ for the Subaru/FMOS galaxy redshift survey for cosmology (FastSound)
Tonegawa, M.,..., Goto, T., et al. 2014,PASJ,66,43
61. A Tale of Two Feedbacks: Star Formation in the Host Galaxies of Radio AGNs
Karouzos, M.,..., Goto, T., et al. 2014, ApJ,784,137
62. AKARI North Ecliptic Pole Deep Survey. Revision of the catalogue via a new image analysis
Murata, K.,..., Goto, T., et al. 2013, A&A,559,1830
63. A deep ATCA 20 cm radio survey of the AKARI Deep Field South near the South Ecliptic Pole
White, G.,..., Goto, T., et al. 2012, MNRAS,427,132
64. The North Ecliptic Pole Wide survey of AKARI: a near- and mid-infrared source catalog
Kim, S.,..., Goto, T., et al. 2012, A&A, 548, 29
65. The current star formation rate of K+A galaxies
Nielsen, D.,..., Goto, T., et al. 2012, ApJ, 761, 16

66. Star Formation and AGN Activity in Galaxies Classified Using the $1.6\mu\text{m}$ Bump and PAH Features at $z=0.4-2$
Hanami, H.,..., Goto, T., et al. 2012, PASJ, 64, 70
67. Star-galaxy separation in the AKARI NEP deep field
Solarz, ..., Goto, T., et al. 2012, A&A, 541, 50
68. The AKARI NEP-Deep survey: a mid-infrared source catalogue
Takagi, T.,..., Goto, T., et al. 2012, A&A, 537, 24
69. Far-infrared luminosity function of local star-forming galaxies in the AKARI Deep Field-South
Sedgwick, C.,..., Goto, T., et al. 2011, MNRAS, 416, 1862
70. \diamond Spatially Resolved Spectroscopic Observations of a Possible E+A Progenitor: SDSS J160241.00+521426.9
Matsubayashi, K.,..., Goto, T., et al. 2011, ApJ, 729, 29
71. Merging Galaxy Cluster A2255 in Mid-infrared
Shim, H.,..., Goto, T., et al. 2011, ApJ, 727, 14
72. \diamond A Large Number of $z>6$ Galaxies Around a QSO at $z = 6.43$: Evidence for a Proto-cluster?
Utsumi, Y.,..., Goto, T., et al. 2010, ApJ, 721, 1680
73. A deep survey of the AKARI north ecliptic pole field . I. WSRT 20 cm radio survey description, observations and data reduction
White, G. J.,..., Goto, T., et al. 2010, A&A, 517A, 54
74. Source counts at 15 microns from the AKARI NEP survey
Pearson, C.P.,..., Goto, T., et al. 2010, A&A, 514A, 8
75. Polycyclic aromatic hydrocarbon (PAH) luminous galaxies at $z\sim 1$
Takagi, T.,..., Goto, T., et al. 2010, A&A, 514A, 5
76. \diamond The Fundamental Planes of E+A galaxies and GALEX UV-excess early-type galaxies: Revealing their intimate connection
Choi, Y., Goto, T., Yoon, S.J., MNRAS, 2009, 395, 637
77. The Mid-infrared View of Red Sequence Galaxies in Abell 2218 with AKARI
Jongwan, K., ..., Goto, T., et al. 2009, ApJ, 695, 198
78. Photometric redshift accuracy in AKARI deep surveys
Negrello, M.,..., Goto, T., et al. 2009, MNRAS, 394, 375
79. AKARI/IRC Deep Survey in the North Ecliptic Pole Region
Wada, T.,... Goto, T., et al. 2008, PASJ, 60, 517
80. \diamond E+A and companion galaxies - I. A catalogue and statistics
Yamauchi, C., Yagi, M., Goto, T., 2008, MNRAS, 390, 383
81. Current star formation in early-type galaxies and the K+A phenomenon
Helmholtz, J. F., Waltherbos, R. A. M., Goto, T., 2008, MNRAS, 387, 1537

82. Timeline analysis and wavelet multiscale analysis of the AKARI All-Sky Survey at $90\mu\text{m}$
Lingyu, W. ... Goto, T., et al. 2008, MNRAS, 387, 601
83. \diamond Spatially resolved spectroscopy of passive spiral galaxies
Ishigaki, M., Goto, T., Matsuhara, H. 2007, MNRAS, 382, 270
84. The Far-Infrared Properties of Spatially Resolved AKARI Observations
Jeong, W.S-..., Goto, T., et al. 2007, PASJ, 59S, 429
85. The Far-Infrared Surveyor (FIS) for AKARI
Kawada, M...., Goto, T., et al. 2007, PASJ, 59S, 389
86. The Infrared Astronomical Mission AKARI
Murakami, H...., Goto, T., et al. 2007, PASJ, 59S, 369
87. Feedback and Brightest Cluster Galaxy Formation: ACS Observations of the Radio Galaxy
TN J1338-1942 at $z = 4.1$
Zirm, A.W...., Goto, T. et al. 2005, ApJ, 630, 68
88. Interacting E+A System SDSS J161330.18+510335.5. I. Spatially Extended Poststarburst
Signatures and Age Gradient
Yagi, M., Goto, T., Hattori, T. 2006, ApJ, 642, 152
89. The Spatial Distribution of Poststarburst Signatures in E+A Galaxies
Yagi, M., Goto, T. 2006, AJ, 131, 2050
90. Clustering of Star-forming Galaxies Near a Radio Galaxy at $z=5.2$
Overzier, R. A...., Goto, T. et al. 2006, ApJ, 637, 58
91. Hubble Space Telescope ACS Multiband Coronagraphic Imaging of the Debris Disk around
 β Pictoris
Golimowski, D. A... Goto, T. et al. 2006, AJ, 131, 3109
92. Evolution of the Color-Magnitude Relation in High-Redshift Clusters: Blue Early-Type
Galaxies and Red Pairs in RDCS J0910+5422
Mei, S...., Goto, T. et al. 2006, ApJ, 639, 81
93. An Overdensity of Galaxies near the Most Distant Radio-loud Quasar
Zheng, W...., Goto, T. et al. 2006, ApJ, 640, 574
94. The C4 Clustering Algorithm: Clusters of Galaxies in the Sloan Digital Sky Survey
Miller, C.J...., Goto, T. et al. 2005, AJ, 130, 968
95. Total Galaxy Magnitudes and Effective Radii from Petrosian Magnitudes and Radii
Graham, A.W...., Goto, T. et al. 2005, AJ, 130, 1535
96. \diamond Radial and 2D colour properties of E+A galaxies
Yamauchi, C., Goto, T. 2005, MNRAS, 359, 1557
97. A Dynamical Simulation of the Debris Disk around HD 141569A
Ardila, D.R...., Goto, T. et al. 2005, ApJ, 627, 986
98. Hubble Space Telescope Advanced Camera for Surveys Coronagraphic Imaging of the AU
Microscopii Debris Disk
Krist, J.E...., Goto, T. et al. 2005, AJ, 129, 1008

99. Near-infrared imaging of 222 nearby H δ -strong galaxies from the Sloan Digital Sky Survey
Balogh,M.L..., Goto, T. et al. 2005,MNRAS,360,587
100. Strong-Lensing Analysis of A1689 from Deep Advanced Camera Images
Broadhurst,T..., Goto, T. et al. 2005,ApJ.621.53
101. The Morphology - Density Relation in $z \sim 1$ Clusters
Postman,M,..., Goto, T. et al. 2005, ApJ,623,721
102. The Transformation of Cluster Galaxies at Intermediate Redshift
Homeier,N.L..., Goto, T. et al. 2004, ApJ,621,651
103. \diamond The Environmental Dependence of Galaxy Properties in the Local Universe: Dependence on Luminosity, Local Density, and System Richness
Tanaka,M..., Goto, T. et al. 2004, AJ, 128, 2677
104. The Luminosity Function of Early-Type Galaxies at $z \sim 0.75$
Cross,N.J.G..., Goto, T. et al. 2004, AJ, 128, 1990
105. Observations and Theoretical Implications of the Large-Separation Lensed Quasar SDSS J1004+4112
Oguri, M..., Goto, T., et al. 2004, ApJ, 605, 780
106. Ultracompact Dwarf Galaxies in Abell 1689: A Photometric Study with the Advanced Camera for Surveys
Mieske, S..., Goto, T. et al. 2004, AJ, 128, 1529
107. The Evolution of Galaxies in and around Clusters at High-Redshift
Fujita, Y., Goto, T., 2004, PASJ, 56, 621
108. \diamond Are Passive Spiral Galaxies Truly "Passive" and "Spiral"? : A Near-Infrared Perspective
Yamauchi, C., Goto, T. 2004, MNRAS, 352, 815
109. Selection and photometric properties of K+A galaxies
Quintero,A.D..., Goto, T. et al. ,2004, ApJ, 602, 190
110. Galaxy Star-Formation as a Function of Environment in the Early Data Release of the Sloan Digital Sky Survey
Gomez, P... Goto, T. et al. 2003, ApJ. 584, 210
111. The Cluster Mass Function from Early SDSS Data: Cosmological Implications
Bahcall , N.A..., Goto, T. et al. 2003 ApJ, 585, 182
112. A Merged Catalog of Clusters of Galaxies from Early SDSS Data
Bahcall , N.A..., Goto, T. et al.,2003, ApJS, 148, 243
113. Star formation rate indicators in the Sloan Digital Sky Survey
Hopkins,A.M..., Goto, T. et al. 2003 ,ApJ, 599, 97

Conference proceedings

114. Cosmic star formation history revealed by the AKARI & Spatially-resolved spectroscopy of an E+A (Post-starburst) system,
Goto, T. et al., 2009, "Hunting for the Dark: The Hidden Side of Galaxy Formation", Malta, 19-23 Oct. 2009, eds. V.P. Debattista & C.C. Popescu, AIP Conf. Ser. arXiv:1001.0007
115. Environmental Effects on Galaxy Evolution Based on the SDSS
Goto, T. et al., 2006, Proc. ESO Workshop, Groups of Galaxies in the Nearby Universe (5-9 Dec 2005), eds. I. Saviane, V. Ivanov & J. Borissova (Springer-Verlag), astro-ph/0605203
116. The origin of E+A galaxies
Goto, T. 2004, Astronomical Herald, 97, 467
117. The Origin of E+A Galaxies
Goto, T. et al., 2003, RESCEU International symposium,, astro-ph/0411519
118. The Environmental Effects on Galaxy Evolution Based on the SDSS
Goto, T., 2003, Carnegie Observatories Astrophysics Series, Vol. 3: Clusters of Galaxies: Probes of Cosmological Structure and Galaxy Evolution , ed. J. S. Mulchaey, A. Dressler, and A. Oemler (Cambridge: Cambridge Univ. Press), astro-ph/0312042

Invited talks

- Invited talk at "NCTS Annual Theory Meeting 2016:Particles, Cosmology and String", Hsinchu, Taiwan (2016/12)
"A new distance measure using the correlation between CO luminosity and its line width of sub-millimeter galaxies."
- Invited talk at "NCTS Annual Theory Meeting 2015:Particles, Cosmology and String", Hsinchu, Taiwan (2015/12)
"Dark Energy: Observational Challenges"
- Invited talk at SPICA science conference, Tokyo, Japan(2013/06)
"Cosmic star-formation history and AGN accretion history: from AKARI to SPICA"
- Invited seminar at University of Edinburgh, UK(2012/11)
"Cosmic star-formation history and AGN accretion history near and far: AKARI reveals both"
- Invited talk at 2ndAKARI conference, Jeju, Korea(2012/02)
"Cosmic star-formation history and AGN accretion history near and far: AKARI reveals both"
- Invited talk at Kyoto University International Center (2007/06)
Graduate School in USA

1 Appendix

Our discovery of the 100 QSOs is reported in 14 newspapers in Taiwan (Fig.1).



Figure 1: Taiwan's news paper reporting our discovery of 100 QSOs in March, 2019.

A discovery of the most distant QSO host galaxy (Goto et al. 2009, MNRAS, 400, 843) was a subject of a press-release by the University of Hawaii¹⁶, and appeared in many US and international newspapers. Fig.2 is an article in the Honolulu Advertiser.

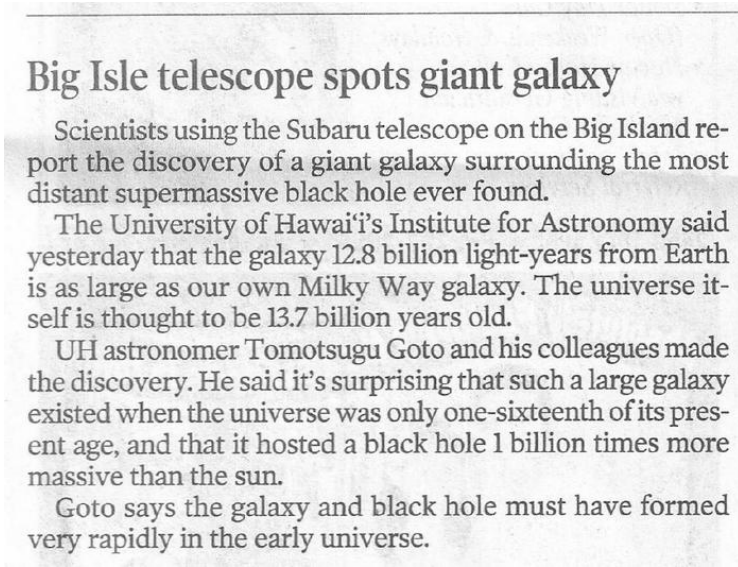


Figure 2: Appeared in Honolulu Advertiser, on Sep. 4, 2009.

¹⁶<http://www.ifa.hawaii.edu/info/press-releases/BlackHole/>