

As of March 18th, 2019

## Contact Information

Haystack Observatory +1(617)715-5579 (Tel)  
Massachusetts Institute of Technology +1(617)715-5590 (Fax)  
99 Millstone Rd, Westford, MA 01886, USA [kakiyama@mit.edu](mailto:kakiyama@mit.edu) (e-mail)  
<http://kazuakiyama.github.io> (web)  
ORCID: [0000-0002-9475-4254](https://orcid.org/0000-0002-9475-4254)

## Education

2015 March Ph.D. Astronomy , University of Tokyo, Tokyo, Japan  
2012 March M.Sc. Astronomy, University of Tokyo, Tokyo, Japan  
2010 March B.Sc. Physics, Hokkaido University, Hokkaido, Japan

## Professional History

2017 September – Present  
Jansky Fellow, National Radio Astronomy Observatory, VA, USA  
(Host Institution: Massachusetts Institute of Technology, Haystack Observatory, MA, USA)  
2016 September – 2017 August  
Postdoctoral Associate, Massachusetts Institute of Technology, Haystack Observatory, MA, USA  
2015 September – 2017 August  
Postdoctoral Fellow for Research Abroad, Japan Society for the Promotion of Science  
(Host Institution: Massachusetts Institute of Technology, Haystack Observatory, MA, USA)  
2015 April – 2015 August  
Research Assistant, National Astronomical Observatory of Japan, Tokyo, Japan  
2012 April – 2015 March  
Research Fellow (DC1), Japan Society for the Promotion of Science  
(Host Institution: University of Tokyo, Tokyo, Japan)

## Visiting Appointments / Affiliates

2017 February – Present  
Affiliate, Harvard University, Black Hole Initiative, MA, USA  
2016 April – Present  
Special Visiting Researcher, National Astronomical Observatory of Japan, Tokyo, Japan

## Honor, Awards and Scholarship

2017 September  
2017 Jansky Fellowship Program, National Radio Astronomy Observatory  
(the first Jansky Fellow from Japan)

- 2015 March President Award, University of Tokyo
- 2015 March Research Award, Graduate School of Science, University of Tokyo
- 2015 March The Representative of the Graduating Students, Graduate School of Science, University of Tokyo
- 2010 March Clark Award, Hokkaido University Clark Memorial Foundation  
(I graduated from the Hokkaido University as the top student of the Department of Physics, School of Science.)
- 2007 April – 2010 March  
Scholarship Student, Inoue Scholarship Foundation
- 2007 March Nitobe Award, Hokkaido University

## Grant History

- 2016 September – Present  
NSF-1614868 “Shaping the Narrow Jets of Material from Supermassive Black Holes”,  
National Science Foundation, USA,  
Vincent Fish (PI), Colin Lonsdale, 142k USD  
(I’m a collaborator of the program, since I was not eligible to a co-investigator of the proposal.  
However, I made a significant contribution to the proposal of this program including planning  
detailed science cases and drafting the proposal.)
- 2012 April – 2015 March  
Grant-in-Aid for JSPS Fellows,  
Japan Society of Promotion of Science, Japan  
Kazunori Akiyama (PI), 2.7M Japanese Yen ( $\approx$  27k USD)

## Teaching/Mentoring Experiences

- 2013 – Present  
Mentor for 4 Graduate Students  
- Hiroki Okino (University of Tokyo; 2018 April – Present)  
- Masayuki Yamaguchi (University of Tokyo; 2016 September – Present)  
- Kazuki Kuramochi (University of Tokyo; 2014 April – 2018 December)  
- Hikaru Chida (Tokai University; 2013 April – 2015 March)
- 2013 – Present (every summer from June to August)  
Mentor for 7 Undergraduate Students at Universities and Colleges in USA,  
Research Experience for Undergraduates (REU) Program, MIT Haystack Observatory
- 2013 June – August  
Mentor for 1 Pre-college Student  
AGMUS Pre-College Summer Internship Program, MIT Haystack Observatory
- 2012 August  
Teaching Assistant for Observation Experiments of Radio Astronomy,  
NAOJ Mizusawa VLBI Observatory, a course of Ryukyu University, Japan
- 2010 August  
Mentor for 5 High School Students,

Research Opportunity Program for High School Students,  
NAOJ Mizusawa VLBI Observatory, Japan

## Noteworthy Research Experiences

### Refereeing Experiences

Astrophysical Journal (ApJ; 2016 –)  
Monthly Notices of the Royal Astronomical Society (MNRAS; 2017 –)  
Publications of the Astronomical Society of Japan (PASJ; 2016 –)  
Journal of Physics: Conference Series (JPhCS; 2015 –)  
Galaxies (2019 –)  
Advances in Space Research (ASR; 2019 –)

### Statistical Skills

Bayesian Statistics and Modeling, Markov Chain Monte Carlo, Compressive Sensing and other sparse sampling techniques

### Data Analysis Experiences

Event Horizon Telescope (EHT), Very Long Baseline Array (VLBA), MERLIN,  
European VLBI Network (EVN), VLBI Exploration of Radio Astrometry (VERA),  
KVN and VERA Array (KaVA), Atacama Large Millimeter/sub-millimeter Array (ALMA),  
Very Large Array (VLA)

### Astronomical Packages

AIPS, DIFMAP, CASA, ParselTongue, HOPS, MAPS

### Programming Languages

Fluency in Fortran and C, Familiarity with Object Pascal

### Scripting Languages

Fluency in Python and GNU Bash, Familiarity with GNU AWK

## Presentations at International Conferences in Recent 5 Years

**Summary**            **12 invited/plenary talks, 9 other talks**

Complete list and more detailed information are available at [my website](#).

- 2019 January        East Asia AGN Workshop 2019, ASIAA, Taiwan – Oral Talk
- 2018 December     East Asian ALMA Science Workshop 2018 (**invited**), Osaka Prefecture University,  
Osaka, Japan – Oral Talk
- 2018 November     EHT 2018 (**SOC, Plenary Talk**), Radboud University, Nijmegen, Netherlands –  
Oral Talk
- 2018 May            IAUS 342: Perseus in Sicily: from black hole to cluster outskirts (**invited**), Noto,  
Italy – Oral Talk
- 2018 March         NRAO Postdoc Symposium 2018, NRAO Socorro, NM – Oral Talk
- 2018 January       Dawn of a New Era for Black Hole Jets in Active Galaxies (**invited**), Tohoku Uni-  
versity, Japan – Oral Talk

- 2017 December East Asia AGN Workshop 2017, Kagoshima University, Kagoshima, Japan – Oral Talk
- 2017 November NEROC: Second Annual Radio Science Symposium, MIT Haystack Observatory, MA – Oral Talk
- 2017 June When Brandeis met Jansky: astrophysics and beyond, Brandeis University, MA – Oral Talk and Poster
- 2017 March Black Hole Astrophysics with VLBI: Past, Present, and Future (**invited**), National Astronomical Observatory of Japan, Tokyo, Japan – Oral Talk
- 2017 January Challenges of AGN Jets (**invited**), National Astronomical Observatory of Japan, Tokyo, Japan – Oral Talk
- 2016 November EHT 2016 (**invited**), MIT Haystack Observatory, Cambridge, MA – Oral Talk
- 2016 November NEROC Symposium: Radio Science and Related Topics (**invited**), MIT Haystack Observatory, MA – Oral Talk
- 2016 July Boutiques & Experiments 2016: Radio (**invited**), Caltech, CA – Oral Talk
- 2016 June The Twenty-sixth Annual New England Regional Quasar/AGN Meeting, Brandeis University, MA – Oral Talk
- 2016 May Blazars through Sharp Multi-Wavelength Eyes, Malaga, Spain – Oral Talk
- 2016 May M87 Workshop: Towards the 100th Anniversary of the Discovery of Cosmic Jets. Taipei, Taiwan – Oral Talk
- 2016 January Ultra-high resolution observation with phased ALMA (**invited**), National Astronomical Observatory of Japan, Japan – Oral Talk
- 2015 July KaVA SWG meeting & 8th East Asia VLBI workshop, Hokkaido University, Japan – Oral Talk
- 2015 June mm-VLBI Data Processing Workshop (**Invited**), Lorentz Center, Netherland – Oral Talk
- 2014 November EHT 2014 Meeting (**Invited**), Perimeter Institute, Canada – Oral Talk

### **Colloquium Talks at Other Institutions in Recent 5 Years (Total 9 Talks)**

Complete list and more detailed information are available at [my website](#).

- 2018 September Black Hole Initiative, Harvard University, USA
- 2018 May The Istituto di Radioastronomia di Bologna, Italy
- 2018 May Radboud University, Netherland
- 2018 March Boston University, USA
- 2018 February University of Massachusetts Lowell, USA
- 2016 September National Astronomical Observatory of Japan, Japan
- 2015 August Academia Sinica Institute of Astronomy and Astrophysics, Taiwan

2015 June            Kyoto University, Japan  
2015 May            Institute of Astronomy, University of Tokyo, Japan

## Public talk and Outreach Experiences

2015 June            Visiting Lecturer, Natsuda Junior High School in Oshu, Iwate, Japan  
2013 August        Assistant, NAOJ Nobeyama Radio Observatory Open House Day  
2012 August        Assistant, NAOJ Mizusawa VLBI Observatory Open House Day  
2010 – 2014        Assistant, NAOJ Mitaka Open House Day in October  
2010 August        Assistant and Public Talk, NAOJ Ishigaki Observatory Open House Day

## Publications: Summary

Refereed Journal Publications	40 papers (8 Corresponding and 32 Co-author Papers)
Papers Submitted to Refereed Journals	2 papers as the corresponding author
White Papers	2 papers (2 Co-author Papers)
Non-Refereed Journal Publications	11 papers (1 First and 10 Co-author Papers)
Indices for All Publications	h-index:16, m-index:1.8, g-index:26, i10-index:21, torii index:1.1, riq index:117, read10-index:592.8
Online List of Publications	<a href="#">Astrophysics Data System</a> <a href="#">Google Scholar</a>

## Refereed Journal Publications

40. Zhao, G.-Y., Jung, T., Sohn, B. W., Kino, M., Honma, M., Dodson, R., Rioja, M., Han, S.-T., Shibata, K., Byun, D.-Y., [Akiyama, K.](#), et al., “*Source-Frequency Phase-Referencing Observation of AGNS with KAVA Using Simultaneous Dual-Frequency Receiving*”, [Journal of Korean Astronomical Society](#), **52**, 23 (2019)
39. Issaoun, S., Johnson, M. D., Blackburn, L., Brinkerink, C. D., Mościbrodzka, M., Chael, A., Goddi, C., Martí-Vidal, I., Wagner, J., Doeleman, S. S., Falcke, H., Krichbaum, T. P., [Akiyama, K.](#), et al., “*The Size, Shape, and Scattering of Sagittarius A\* at 86 GHz: First VLBI with ALMA*”, [The Astrophysical Journal](#), **871**, 30 (2019)
38. Brinkerink, C. D., Müller, C., Falcke, H. D., Issaoun, S., [Akiyama, K.](#), et al., “*Micro-arcsecond structure of Sagittarius A\* revealed by high-sensitivity 86 GHz VLBI observations*”, [Astronomy and Astrophysics](#), **621**, A119 (2019)
37. Nakamura, M., Asada, K., Hada, K., Pu, H.-Y., Noble, S., Tseng, C., Toma, K., Kino, M., Nagai, H., Takahashi, K., Algaba, J.-C., Orienti, M., [Akiyama, K.](#), et al., “*Parabolic Jets from the Spinning Black Hole in M87*”, [The Astrophysical Journal](#), **868**, 146 (2018)
36. Hiura, K., Nagai, H., Kino, M., Niinuma, K., Sorai, K., Chida, H., [Akiyama, K.](#), et al., “*VERA monitoring of the radio jet 3C 84 in the period of 2007-2013: Detection of non-linear motion*”, [Publications of the Astronomical Society of Japan](#), **70**, 83 (2018)

35. Johnson, M. D., Narayan, R., Psaltis, D., Blackburn, L., Kovalev, Y. Y., Gwinn, C. R., Zhao, G.-Y., Bower, G. C., Moran, J. M., Kino, M., Kramer, M., Akiyama, K., et al., “*The Scattering and Intrinsic Structure of Sagittarius A\* at Radio Wavelengths*”, [The Astrophysical Journal](#), **865**, 104 (2018)
34. Matthews, L. D., Reid, M. J., Menten, K. M. & Akiyama, K., “*The Evolving Radio Photospheres of Long-period Variable Stars*”, [The Astronomical Journal](#), **156**, 15 (2018)
33. Lu, R.-S., Krichbaum, T. P., Roy, A. L., Fish, V. L., Doeleman, S. S., Johnson, M. D., Akiyama, K., et al., “*Detection of Intrinsic Source Structure at  $\sim 3$  Schwarzschild Radii with Millimeter-VLBI Observations of Sagittarius A\**”, [The Astrophysical Journal](#), **859**, 60 (2018)
- 32.** Kuramochi, K., Akiyama, K. (Corresponding Author), Ikeda, S., et al., “*Superresolution Interferometric Imaging with Sparse Modeling Using Total Squared Variation: Application to Imaging the Black Hole Shadow*”, [The Astrophysical Journal](#), **858**, 56 (2018)
31. Chael, A. A., Johnson, M. D., Bouman, K. L., Blackburn, L. L., Akiyama, K. & Narayan, R., “*Interferometric Imaging Directly with Closure Phases and Closure Amplitudes*”, [The Astrophysical Journal](#), **857**, 23 (2018)
30. Matthews, L. D., Crew, G. B., Doeleman, S. S., Lacasse, R., Saez, A. F., Alef, W., Akiyama, K., et al., “*The ALMA Phasing System: A Beamforming Capability for Ultra-high-resolution Science at (Sub)Millimeter Wavelengths*”, [Publications of the Astronomical Society of the Pacific](#), **130**, 015002 (2018)
- 29.** Akiyama, K. (Corresponding Author), Asada, K., Fish, V., et al., “*The Global Jet Structure of the Archetypical Quasar 3C 273*”, [Galaxies](#), **6**, 15 (2018)
28. Obuchi, T., Ikeda, S., Akiyama, K. & Kabashima, Y., “*Accelerating cross-validation with total variation and its application to super-resolution imaging*”, [PLoS ONE](#), **12**, 0188012 (2017)
27. Cho, I., Jung, T., Zhao, G.-Y., Akiyama, K., et al., “*A comparative study of amplitude calibrations for the East Asia VLBI Network: A priori and template spectrum methods*”, [Publications of the Astronomical Society of Japan](#), **69**, 87 (2017)
26. Johnson, M. D., Bouman, K. L., Blackburn, L., Chael, A. A., Rosen, J., Shiokawa, H., Roelofs, F., Akiyama, K., et al., “*Dynamical Imaging with Interferometry*”, [The Astrophysical Journal](#), **850**, 172 (2017)
25. Hada, K., Park, J. H., Kino, M., Niinuma, K., Sohn, B. W., Ro, H. W., Jung, T., Algaba, J.-C., Zhao, G.-Y., Lee, S.-S., Akiyama, K., et al., “*Pilot KaVA monitoring on the M 87 jet: Confirming the inner jet structure and superluminal motions at sub-pc scales*”, [Publications of the Astronomical Society of Japan](#), **69**, 71 (2017)
- 24.** Akiyama, K. (Corresponding Author), Ikeda, S., Pleau, M., et al., “*Superresolution Full-polarimetric Imaging for Radio Interferometry with Sparse Modeling*”, [The Astronomical Journal](#), **153**, 159 (2017)
- 23.** Akiyama, K. (Corresponding Author), Kuramochi, K., Ikeda, S., et al., “*Imaging the Schwarzschild-radius-scale Structure of M87 with the Event Horizon Telescope Using Sparse Modeling*”, [The Astrophysical Journal](#), **838**, 1 (2017)
22. Pu, H.-Y., Akiyama, K. & Asada, K., “*The Effects of Accretion Flow Dynamics on the Black Hole Shadow of Sagittarius A\**”, [The Astrophysical Journal](#), **831**, 4 (2016)

21. Fish, V., Akiyama, K., Bouman, K., et al., “*Observing—and Imaging—Active Galactic Nuclei with the Event Horizon Telescope*”, [Galaxies](#), **4**, 54 (2016)
20. Ikeda, S., Tazaki, F., Akiyama, K., et al., “*PRECL: A new method for interferometry imaging from closure phase*”, [Publications of the Astronomical Society of Japan](#), **68**, 45 (2016)
19. **Akiyama, K. (Corresponding Author)** & Johnson, M. D., “*Interstellar Scintillation and the Radio Counterpart of the Fast Radio Burst FRB 150418*”, [The Astrophysical Journal](#), **824**, L3 (2016)
18. **Akiyama, K. (Corresponding Author)**, Stawarz, L., Tanaka, Y. T., et al., “*EVN Observations of HESS J1943+213: Evidence for an Extreme TeV BL Lac Object*”, [The Astrophysical Journal](#), **823**, L26 (2016)
17. Broderick, A. E., Fish, V. L., Johnson, M. D., Rosenfeld, K., Wang, C., Doeleman, S. S., Akiyama, K., et al., “*Modeling Seven Years of Event Horizon Telescope Observations with Radiatively Inefficient Accretion Flow Models*”, [The Astrophysical Journal](#), **820**, 137 (2016)
16. Fish, V. L., Johnson, M. D., Doeleman, S. S., Broderick, A. E., Psaltis, D., Lu, R.-S., Akiyama, K., et al., “*Persistent Asymmetric Structure of Sagittarius A\* on Event Horizon Scales*”, [The Astrophysical Journal](#), **820**, 90 (2016)
15. Hada, K., Kino, M., Doi, A., Nagai, H., Honma, M., Akiyama, K., et al., “*High-sensitivity 86 GHz (3.5 mm) VLBI Observations of M87: Deep Imaging of the Jet Base at a Resolution of 10 Schwarzschild Radii*”, [The Astrophysical Journal](#), **817**, 131 (2016)
14. Johnson, M. D., Fish, V. L., Doeleman, S. S., Marrone, D. P., Plambeck, R. L., Wardle, J. F. C., Akiyama, K., et al., “*Resolved magnetic-field structure and variability near the event horizon of Sagittarius A\**”, [Science](#), **350**, 1242 (2015)
13. Sawada-Satoh, S., Akiyama, K., Niinuma, K., et al., “*Apparent Inward Motion of the Parsec-Scale Jet in the BL Lac Object OJ287 during the 2011-2012  $\gamma$ -ray Flares*”, [Publication of Korean Astronomical Society](#), **30**, 429 (2015)
12. Koyama, S., Kino, M., Doi, A., Niinuma, K., Hada, K., Nagai, H., Honma, M., Akiyama, K., et al., “*Probing the precise location of the radio core in the TeV blazar Mrk 501 with VERA at 43 GHz*”, [Publications of the Astronomical Society of Japan](#), **67**, 67 (2015)
11. **Akiyama, K. (Corresponding Author)**, Lu, R.-S., Fish, V. L., et al., “*230 GHz VLBI Observations of M87: Event-horizon-scale Structure during an Enhanced Very-high-energy  $\gamma$ -Ray State in 2012*”, [The Astrophysical Journal](#), **807**, 150 (2015)
10. Kino, M., Takahara, F., Hada, K., Akiyama, K., et al., “*Magnetization Degree at the Jet Base of M87 Derived from the Event Horizon Telescope Data: Testing the Magnetically Driven Jet Paradigm*”, [The Astrophysical Journal](#), **803**, 30 (2015)
9. Niinuma, K., Lee, S.-S., Kino, M., Sohn, B. W., Akiyama, K., et al., “*VLBI observations of bright AGN jets with the KVN and VERA Array (KaVA): Evaluation of imaging capability*”, [Publications of the Astronomical Society of Japan](#), **66**, 103 (2014)
8. Honma, M., Akiyama, K., Uemura, M. & Ikeda, S., “*Super-resolution imaging with radio interferometry using sparse modeling*”, [Publications of the Astronomical Society of Japan](#), **66**, 95 (2014)



7. Hada, K., Giroletti, M., Kino, M., Giovannini, G., D’Ammando, F., Cheung, C. C., Beilicke, M., Nagai, H., Doi, A., [Akiyama, K.](#), et al., “*A Strong Radio Brightening at the Jet Base of M 87 during the Elevated Very High Energy Gamma-Ray State in 2012*”, [The Astrophysical Journal](#), **788**, 165 (2014)
6. Kuo, C. Y., Asada, K., Rao, R., Nakamura, M., Algaba, J. C., Liu, H. B., Inoue, M., Koch, P. M., Ho, P. T. P., Matsushita, S., Pu, H.-Y., [Akiyama, K.](#), et al., “*Measuring Mass Accretion Rate onto the Supermassive Black Hole in M87 Using Faraday Rotation Measure with the Submillimeter Array*”, [The Astrophysical Journal](#), **783**, L33 (2014)
5. **[Akiyama, K.](#) (Corresponding Author)**, Takahashi, R., Honma, M., et al., “*Multi-Epoch VERA Observations of Sagittarius A\*. I. Images and Structural Variability*”, [Publications of the Astronomical Society of Japan](#), **65**, 91 (2013)
4. Lu, R.-S., Fish, V. L., [Akiyama, K.](#), et al., “*Fine-scale Structure of the Quasar 3C 279 Measured with 1.3 mm Very Long Baseline Interferometry*”, [The Astrophysical Journal](#), **772**, 13 (2013)
3. Nagai, H., Kino, M., Niinuma, K., [Akiyama, K.](#), et al., “*The GENJI Programme: Gamma-Ray Emitting Notable AGN Monitoring by Japanese VLBI*”, [Publications of the Astronomical Society of Japan](#), **65**, 24 (2013)
2. Orienti, M., Koyama, S., D’Ammando, F., Giroletti, M., Kino, M., Nagai, H., Venturi, T., Dallacasa, D., Giovannini, G., Angelakis, E., Fuhrmann, L., Hovatta, T., Max-Moerbeck, W., Schinzel, F. K., [Akiyama, K.](#), et al., “*Radio and  $\gamma$ -ray follow-up of the exceptionally high-activity state of PKS 1510-089 in 2011*”, [Monthly Notices of the Royal Astronomical Society](#), **428**, 2418 (2013)
1. Motogi, K., Sorai, K., Honma, M., Minamidani, T., Takekoshi, T., [Akiyama, K.](#), et al., “*Intermittent maser flare around the high-mass young stellar object G353.273+0.641 - I. Data and overview*”, [Monthly Notices of the Royal Astronomical Society](#), **417**, 238 (2011)

## White Papers

2. Doeleman, S. S., [Akiyama, K.](#), Blackburn, L., et al., “*Black Hole Physics on Horizon Scales*”, [Astro2020 Science White Paper](#), (2019)
1. Asada, K., Kino, M., Honma, M., Hirota, T., Lu, R.-S., Inoue, M., Sohn, B.-W., Shen, Z.-Q., Ho, P. T. P., [Akiyama, K.](#), et al., “*White Paper on East Asian Vision for mm/submm VLBI: Toward Black Hole Astrophysics down to Angular Resolution of 1  $R_s$* ”, [arXiv e-prints](#), (2017)

## Non-refereed Journal Publications

11. Zhao, G.-Y., Kino, M., Cho, I.-J., [Akiyama, K.](#), Sohn, B. W., et al., “*Millimeter VLBI observations of Sgr A\* with KaVA and KVN*”, [The Multi-Messenger Astrophysics of the Galactic Centre](#), **322**, (2017)
10. Benkevitch, L., [Akiyama, K.](#), Lu, R., et al., “*Reconstruction of Static Black Hole Images Using Simple Geometric Forms*”, [arXiv e-prints](#), (2016)
9. Honma, M., [Akiyama, K.](#), Tazaki, F., et al., “*Imaging black holes with sparse modeling*”, [Journal of Physics Conference Series](#), **699**, (2016)
8. Hada, K., Giroletti, M., Kino, M., Giovannini, G., Ammando, F. D., Cheung, C. C., Beilicke, M., Nagai, H., Doi, A., [Akiyama, K.](#), et al., “*A strong radio brightening at the jet base of M87*”, [arXiv e-prints](#), (2017)



during the elevated very-high-energy  $\gamma$ -ray state in 2012”, [Extragalactic Jets from Every Angle, 313, \(2015\)](#)

7. Hada, K., Giroletti, M., Kino, M., Giovannini, G., D’Ammando, F., Cheung, C. C., Beilicke, M., Nagai, H., Doi, A., [Akiyama, K.](#), et al., “A strong radio brightening at the jet base of M87 in the period of the elevated TeV gamma-ray state in 2012”, [arXiv e-prints, \(2015\)](#)
6. **[Akiyama, K. \(Corresponding Author\)](#)**, Kino, M., Sohn, et al., “Long-term monitoring of Sgr A\* at 7 mm with VERA and KaVA”, [The Galactic Center: Feeding and Feedback in a Normal Galactic Nucleus, 303, \(2014\)](#)
5. Sawada-Satoh, S., Ueno, Y., Akiyama, K. & Niinuma, K., “VERA frequent monitoring of the Parsec-scale jet in the BL Lac Object OJ 287 simultaneous with gamma-ray flares during 2011-2012”, [Proceedings of the 12th European VLBI Network Symposium and Users Meeting \(EVN 2014\). 7-10 October 2014. Cagliari, \(2014\)](#)
4. Chida, H., Nagai, H., [Akiyama, K.](#), et al., “Probing Very Early Stage of Radio Source Evolution in NGC 1275 with VERA”, [Proceedings of the 12th European VLBI Network Symposium and Users Meeting \(EVN 2014\). 7-10 October 2014. Cagliari, \(2014\)](#)
3. Doi, A., Hada, K., Nagai, H., Kino, M., Honma, M., [Akiyama, K.](#), et al., “ALMA Continuum Spectrum of the M87 Nucleus. Quasi-simultaneous continuum observations at bands-3, 6, 7, and 9”, [European Physical Journal Web of Conferences, 61, \(2013\)](#)
2. Sawada-Satoh, S., [Akiyama, K.](#), Kino, M., et al., “VERA monitoring of a blazar OJ 287”, [European Physical Journal Web of Conferences, 61, \(2013\)](#)
1. Doi, A., Hada, K., Nakanishi, K., et al., “ALMA Cycle-0 Observation of the Sombrero Galaxy (M104)”, [New Trends in Radio Astronomy in the ALMA Era: The 30th Anniversary of Nobeyama Radio Observatory, 476, \(2013\)](#)