Masayuki Akiyama

Sep. 28, 1972

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Education

Faculty of Science, Kyoto University Japan
Bachelor *1991 - 1995*

Department of Astronomy, Kyoto University Japan
Master degree *1995 - 1997*

– Optical Follow-up Observations of Hard X-ray Sources Found in the ASCA Large Sky Survey

Department of Astronomy, Kyoto University Japan
Ph.D. Science *1997 - 2000*

– Nature of Hard X-ray Selected Active Galactic Nuclei
Based on Optical Identification of the ASCA Large Sky Survey

Job History

JSPS fellow (DC1) Apr.1997 - Mar. 2000
Department of Astronomy, Kyoto University

COE Researcher Apr.2000 - Mar. 2002
Subaru Telescope, National Astronomical Observatory of Japan

NAOJ Project Researcher (Research Coop. of Univ. of Hawaii) Apr.2002 - Mar. 2003
Subaru Telescope, National Astronomical Observatory of Japan

JSPS fellow (PD) Apr.2003 - Mar. 2005
Subaru Telescope, National Astronomical Observatory of Japan

FMOS Project Astronomer (Research Coop. of Univ. of Hawaii) Apr.2005 - Mar.2008
Subaru Telescope, National Astronomical Observatory of Japan

Associate Professor Apr. 2008 - Mar. 2017
Astronomical Institute, Tohoku University

Professor Apr. 2017 - present
Astronomical Institute, Tohoku University

Awards

The Astronomical Society of Japan Young Astronomer Award 2007

Committees

Associate Editor of Publication of Astronomical Society of Japan . . . . . 2009 - 2018
Organizing Committee of Group of Optical and Infrared Astronomers . . . . . 2011 - 2015
Research Exchange Committee of the NAOJ . . . . . 2012 - 2017
Subaru Advisary Committee . . . . . 2010 - 2019
Subaru Time Allocation Committee . . . . . 2015 - 2019 (char 2017-2019)
Member Representative of Association of Universities for Research in Astronomy (AURA) 2016 - 2019
Japanese TMT Science Advisary Committee . . . . . 2011 - present (chair 2017-)
TMT Science Advisary Committee . . . . . 2011- present (co-chair 2018-)
Tohoku University Center for Gender Equality Promotion . . . . . 2022- present (vice director)

Research Fields and Selected Papers

- AGN surveys and Growth histories of super massive black holes
  - *"The quasar luminosity function at redshift 4 with the Hyper Suprime-Cam Wide Survey"*, Akiyama, M. et al., 2018, PASJ, 70, 34
  - *"The Subaru-XMM-Newton Deep Survey (SXDS). VIII. Multi-wavelength identification, optical/NIR spectroscopic properties, and photometric redshifts of X-ray sources"*, Akiyama, M. et al., 2015, PASJ, 67, 82
  - *"Toward the Standard Population Synthesis Model of the X-Ray Background: Evolution of X-Ray Luminosity and Absorption Functions of Active Galactic Nuclei Including Compton-thick Populations"*, Ueda, Y., Akiyama, M., et al. 2014, ApJ, 786, 104
  - *"Black Hole Mass and Eddington Ratio Distribution Functions of X-ray Selected Broad-line AGNs at z∼1.4 in the Subaru XMM-Newton Deep Field"*, Nobuta, K., Akiyama, M. et al., 2012, ApJ, 761, 143
  - *"Optical Identification of the ASCA Medium Sensitivity Survey in the Northern Sky: Nature of Hard X-ray-selected Luminous Active Galactic Nuclei"*, Akiyama, M., et al. 2003, ApJS, 148, 275
  - *"Optical Identification of the ASCA Large Sky Survey"*, Akiyama, M., et al. 2000, ApJ, 532, 700
- Evolution of galaxies
  - *"Evolution of spatially resolved star formation main sequence and surface density profiles in massive disc galaxies at $0 \leq z \leq 1$: inside-out stellar mass buildup and quenching"*, Abdurro'uf, Akiyama, M., et al., 2018, MNRAS, 479, 5083
  - *"MOIRCS Deep Survey VII. NIR Morphologies of Star-forming Galaxies at $z \sim 1$"*, Konishi, M., Akiyama, M., et al., 2011, PASJ, 63, 363
  - *"MOIRCS Deep Survey VI. Near-infrared Spectroscopy of K-selected Star-forming Galaxies"*, Yoshikawa, T., Akiyama, M., et al., 2010, ApJ, 718, 112
  - *"Adaptive Optics Rest-frame V-band Imaging of Galaxies at z∼3: High Surface Density Disk-like Galaxies ?"*, Akiyama, M., et al., 2008, ApJS, 175, 1
- Co-evolution of galaxies and SMBHs
  - *"Co-Evolution of Supermassive Black Hole and Host Galaxy From $z \sim 1$ to $z = 0$"*, Kiuchi, G., Ohta, K., Akiyama, M., 2009, ApJ, 696, 1051
  - *"Host Galaxies of High-Redshift Active Galactic Nuclei in the Great Observatories Origins Deep Survey Fields"*, Akiyama, M., 2005, ApJ, 629, 72
- Development of Laser Tomography Adaptive Optics system
  - *"Atmospheric turbulence profiling with multi-aperture scintillation of a Shack-Hartmann sensor"*, Ogane, H., Akiyama, M. et al. 2021, MNRAS, 503, 5778
  - *"ULTIMATE-START: Subaru tomography adaptive optics research experiment project overview"*, Akiyama, M. et al. 2020, SPIE, 11448, 1O
  - *"Multi time-step wavefront reconstruction for tomographic adaptive-optics systems"*, Ono, Y., Akiyama, M. et al. 2016, JOSAA, 33, 726
  - *"TMT-AGE: wide field of regard multi-object adaptive optics for TMT"*, Akiyama, M. et al. 2014, SPIE, 9148, 14
- Development of NIR multi object spectrograph
  - *"Fiber Multi-Object Spectrograph (FMOS) for the Subaru Telescope"*, Kimura, M., Maihara, T., Iwamuro, F., Akiyama, M., et al., 2010, PASJ, 62, 1135
  - *"Performance of Echidna fiber positioner for FMOS on Subaru"*, Akiyama, M. et al., 2008, SPIE, 7018, 94