

Dr. Ryo Tazaki

Curriculum Vitae

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PERSONAL INFORMATION

Name	Ryo Tazaki
Date of Birth	5 December 1989
Place of Birth	Chiba, Japan
Sex	Male
Nationality	Japan
Languages	Japanese (native), English (fluent)

EDUCATION

APR. 2014 – MAR. 2017	Ph. D. in Astronomy Department of Astronomy, Kyoto University Advisor: Prof. Dr. Shin Mineshige <i>Thesis: Multiwavelength polarimetric properties of protoplanetary disks</i>
APR. 2012 – MAR. 2014	M. Sc. in Astronomy Department of Astronomy, Kyoto University Advisor: Prof. Dr. Shin Mineshige <i>Thesis: Outward motion of porous dust aggregates in protoplanetary disks</i>
APR. 2008 – MAR. 2012	B. Sc. in Physics Department of Physics and Mathematics, Aoyama Gakuin University Advisor: Prof. Dr. Ryo Yamazaki <i>Thesis: Theoretical explanation for X-ray spectrum of Supernova Remnant SN 1006 (in Japanese)</i>

WORK EXPERIENCE

APR. 2017 – PRESENT	JSPS Research Fellowship for Young Scientist (PD) Department of Astronomy, Tohoku University/Japan Society for the Promotion of Science
APR. 2019 – SEP. 2019	Lecturer (part-time) Faculty of Liberal Arts, Tohoku Gakuin University
APR. 2015 – MAR. 2017	JSPS Research Fellowship for Young Scientist (DC2) Department of Astronomy, Kyoto University/Japan Society for the Promotion of Science

AWARDS

2018	The Best Poster Award at the <i>Cosmic Dust XI</i>
2016	The Best Poster Award at the <i>Cosmic Dust IX</i>
2015	The Best Presentation Award at the <i>Annual meeting of Japanese Society for Planetary Science</i>
2015	The Best Poster Award at the <i>Cosmic Dust VIII</i>

2013 **The Best Poster Award** at the *Cosmic Dust VI*
2013 **Poster Award** at the *Japan's Young Astronomers Meeting*

REFEREED PUBLICATIONS

15. Kandori, Tomisaka, Saito, Tamura, Matsumoto, **Tazaki**, Nagata, Kusakabe, Nakajima, Kwon, Nagayama, and Tatematsu: Distortion of Magnetic Fields in a Starless Core VI: Application of Flux Freezing Model and Core Formation of FeSt 1-457. *The Astrophysical Journal*, in press.
14. Kandori, Tamura, Saito, Tomisaka, Matsumoto, Kusakabe, Kwon, Nagayama, Nagata, **Tazaki**, and Tatematsu: Distortion of Magnetic Fields in Barnard 68. *The Astrophysical Journal*, in press.
13. Ohno, Okuzumi, and **Tazaki**: Clouds of Fluffy Aggregates: How They Form in Exoplanetary Atmospheres and Influence Transmission Spectra. *The Astrophysical Journal*, in press.
12. **Tazaki**, Tanaka, Kataoka, Okuzumi, Muto: Unveiling Dust Aggregate Structure in Protoplanetary Disks by Millimeter-wave Scattering Polarization. *The Astrophysical Journal* (2019), 885, 52
11. **Tazaki**, Tanaka, Muto, Kataoka, and Okuzumi: Effect of dust size and structure on scattered-light images of protoplanetary disks. *Monthly Notices of the Royal Astronomical Society* (2019), 485, 4951
10. Okuzumi and **Tazaki**: Nonsticky Ice at the Origin of the Uniformly Polarized Submillimeter Emission from the HL Tau Disk. *The Astrophysical Journal* (2019), 878, 132
9. Fujita, **Tazaki**, and Toma: Hunting axion dark matter with protoplanetary disk polarimetry. *Physical Review Letters* (2019), 122, 191101 (**Highlighted paper**)
8. Kataoka, Okuzumi, and **Tazaki**: Millimeter-wave Polarization due to Grain Alignment by the Gas Flow in Protoplanetary Disks. *The Astrophysical Journal Letters* (2019), 874, L6
7. Tamanai, Vogt, Huck, Mick, Zimmerman, **Tazaki**, Mutschke, Pucci: Experimental verification of agglomeration effects in infrared spectra on micron-sized particles. *Astronomy & Astrophysics* (2018), 619, A110 (**Highlighted paper**)
6. Kandori, Nagata, **Tazaki**, Tamura, Tomisaka, Kusakabe, Nakajima, Kwon, Nagayama, and Tatematsu: Distortion of Magnetic Fields in a Starless Core V: Near-infrared and Submillimeter Polarization in FeSt 1-457. *The Astrophysical Journal* (2018), 868, 94
5. **Tazaki** and Tanaka: Light Scattering by Fractal Dust Aggregates. II. Opacity and Asymmetry parameter. *The Astrophysical Journal* (2018), 860, 79
4. Ichikawa and **Tazaki**: Cooling timescale of dust tori in dead active galactic nuclei. *The Astrophysical Journal* (2017), 844, 21
3. **Tazaki**, Lazarian, and Nomura: Radiative Grain Alignment In Protoplanetary Disks: Implications for Polarimetric Observations. *The Astrophysical Journal* (2017), 839, 56
2. **Tazaki**, Tanaka, Okuzumi, Kataoka, and Nomura: Light Scattering by Fractal Dust Aggregates. I. Angular Dependence of Scattering. *The Astrophysical Journal* (2016), 823, 70
1. **Tazaki** and Nomura: Outward Motion of Porous Dust Aggregates by Stellar Radiation Pressure in Protoplanetary Disks. *The Astrophysical Journal* (2015), 799, 119

SELECTED TALKS

NOV. 2019 Planet Formation Workshop 2019, NAOJ, Japan
NOV. 2019 (*invited*) 14th Asia-Pacific Physics Conference, Borneo, Malaysia
OCT. 2019 In the Spirit of Lyot 2019, Tokyo, Japan
MAR. 2019 Polarimetry in the ALMA era: a new crossroads of astrophysics, NAOJ, Japan
JAN. 2019 (*invited*) Astronomy Colloquium, ASIAA, Taiwan

NOV. 2018 *(invited)* ALMA Workshop: From disk to solar system, Tokyo, Japan (in Japanese)
SEP. 2018 Japan-Germany meeting on Exoplanets and Planet Formation, Edesheim, Germany
MAY. 2018 *(invited)* Annual meeting of Japan Geoscience Union 2018, Makuhari, Japan (in Japanese)
DEC. 2017 *(invited)* A role of B-field in star formation and galaxy structure, Kagoshima University, Japan (in Japanese)
NOV. 2017 *(invited)* DTA Workshop 2019, Mizusawa, Japan
OCT. 2017 Workshop on gaseous debris disks, RIKEN, Japan
JUL. 2017 *(invited)* Disk workshop 2017, Kyoto University, Japan (in Japanese)
MAY. 2017 *(invited)* Annual meeting of Japan Geoscience Union 2017, Makuhari, Japan (in Japanese)
AUG. 2017 Cosmic Dust X, NAOJ, Japan
MAR. 2017 East-Asian ALMA Science Workshop 2016, NTHU, Taiwan
FEB. 2017 *(invited)* Astronomy Colloquium, NAOJ, Japan
SEP. 2016 Japan-Germany planet & disk workshop, Ishigaki, Japan
APR. 2016 Group Seminar, University of Amsterdam, the Netherlands
MAR. 2016 Protoplanetary discussions, Edinburgh, UK
FEB. 2016 Exoplanets and Disks: Their Formation and Diversity III, Ishigaki, Japan
SEP. 2015 Silicates in space, University of Heidelberg, Germany
AUG. 2014 Cosmic Dust VII, Osaka Sangyo University, Japan

REFERENCES

Prof. Dr. Hidekazu Tanaka

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Prof. Dr. Hideko Nomura

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