

Ryushi Miyayama, Ph.D. student (as of May 23, 2024)

Laboratory of Theoretical Astronomy and Astrophysics, Department of Physics, Nagoya University, Japan
Furo-cho, Chikusa-ku, Nagoya, Aichi 464-8601, Japan
Email: miyayama.ryushi.w1@s.mail.nagoya-u.ac.jp

■ Education

- **Ph.D. in Science** March 2026 (expected)
Nagoya University, Aichi, Japan
Supervisor: Prof. Hiroshi Kobayashi
- **Master of Science** March 2023
Nagoya University, Aichi, Japan
Supervisor: Prof. Hiroshi Kobayashi
- **Bachelor of Science** March 2021
Nagoya University, Aichi, Japan
Supervisor: Prof. Shu-ichiro Inutsuka

■ Grants:

- April 2023 – March 2026 **Fellowship: Tokai National Higher Education and Research System Make New Standards Program for the Next Generation Researchers**
Topic: “Understanding the role of planetary impacts on the habitable environment”
- October 2023 **Funding: 2023 Overseas Research Travel Financial Support, Nagoya University, -250,000(JPY)**
- March 2024 **Funding: Support programme for research abroad -Graduate School of Science, Nagoya University, -300,000(JPY)**
- April 2024 **Funding: RECONNECT Kakenhi project “Diversity of prebiotic chemistry and molecular systems in planetary environment in Solar System”**
Topic: “Study of Formation of Planetary Atmosphere via Planetary Impacts with Numerical Simulation”

■ Award:

- *Dean’s Award of the Graduate School of Science, Nagoya University* March 2023

■ Publication:

- [Ryushi Miyayama](#), Hiroshi Kobayashi, “Formation of Planetary Atmospheres: Analytical Estimation of Vapor Production via Planetary Impacts”, accepted for publication in A&A, 2024

■ International Conference:

2024

- [Ryushi Miyayama](#) & Hiroshi Kobayashi
“Origin of Planetary Atmosphere: Theoretical Estimation of Vapor Production by Planetary Impacts”, Extreme Solar Systems V, Christchurch, NZ, March 2024, Poster

2023

- **Ryushi Miyayama** & Hiroshi Kobayashi
“Shock Pressure Distribution due to a Planetary Impact”, 55 Th Annual Meeting of the Division for Planetary Sciences, San Antonio, TX, US, October 2023, Oral
- **Ryushi Miyayama** & Hiroshi Kobayashi
“Shock Pressure Fields Caused by an Impact and its Analytical Solution”, Protostars and Planets VII, Kyoto, Japan, April 2023, Poster
- **Ryushi Miyayama** & Hiroshi Kobayashi
“The Amount of Vapor via Collisions”, Debris Disk Workshop, Saitama, Japan, March 2023, Oral

2022

- **Ryushi Miyayama** & Hiroshi Kobayashi
“The Amount of Vapor Caused by an Impact and its Dependence on Equation of State”, East Asian Numerical Astrophysics Meeting 9, Okinawa, Japan, September 2022, Oral

■ Work Experience:

October 2022 – March 2023: Teaching Assistant: “Introduction to Information of Science II”, Undergraduate School of Science, Nagoya University.

- Teach students programming skills in C programming language, Python, gnuplot, and Latex.

■ Skills:

- Technical Skills: C/C++, Python, FORTRAN