

Gaku Kinoshita

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My research theme

- 📌 Development of the calibration method for the radiation housekeeping detector onboard Bepi-Colombo for the inner heliosphere exploration. (BepiColombo/SPM Team)
- 📌 The analysis of solar eruptions by multi-spacecraft observations (BepiColombo, Solar Orbiter etc.)

Education

- 2025 – 📌 **Ph.D Course at the Department of Earth and Planetary Science, Graduate School of Science, The University of Tokyo, Japan**
Supervisor: Dr. Kazuo Yoshioka
- 2023 – 2025 📌 **M.Sc., Department of Earth and Planetary Science, Graduate School of Science, The University of Tokyo, Japan**
Thesis title: *Spatio-Temporal Evolution of Solar Plasma Ejecta Approaching from a Multi-Point Comparison of Galactic Cosmic Ray Variations.*
Supervisor: Dr. Kazuo Yoshioka
- 2019 – 2023 📌 **B.Sc., Department of Earth Sciences, School of Education, Waseda University, Japan**
Thesis title: *Comparison of terrestrial S-type granites from New England, US, and lunar granitic rocks using geochemical and mineralogical methods.*
Supervisor: Dr. Timothy Jay Fagan

Research Publications


Journal Articles

- 1 G. Kinoshita, H. Ueno, G. Murakami, M. Pinto, K. Yoshioka, and Y. Miyoshi, "Simulation for the calibration of radiation housekeeping monitor onboard bepicolombo/mmo and application to the inner heliosphere exploration," *Journal of Geophysical Research: Space Physics*, 2025. [DOI: https://doi.org/10.1029/2024JA033147](https://doi.org/10.1029/2024JA033147).




International Conferences

- 2024 📌 G. Kinoshita, K. Yoshioka, G. Murakami, Y. Saito, BepiColombo/BERM-SPM-SIXS team, "Study of the spatio-temporal evolution of the ICME in 2022/3, approached by the multi-point observation of Forbush Decreases", American Geophysical Union Fall Meeting (AGU2024), Washington D.C., 2024/12
- 📌 G. Kinoshita, "Paper review + My research: Characterizing Forbush Decreases using MESSENGER Observations : (Davies et al., 2023)+ FDs observations by MMO/SPM : (My work)", Bepi-Colombo Science Working Team meeting, Kyusyu University, Japan
- 📌 G. Kinoshita, H. Ueno, G. Murakami and K. Yoshioka, "Simulation for the calibration of radiation data acquired by Solar Particle Monitor (SPM)", European Geosciences Union (EGU2024), Vienna, Austria, <https://doi.org/10.5194/egusphere-egu24-7297>

Awards and Achievements

2024  **Highlighted Article**, "The development of the calibration method of BepiColombo's radiation monitor for the inner heliosphere exploration", Japan Geosciences Union meeting (JpGU2024), Makuhari, Japan, <https://sites.google.com/jpgu.org/jpgu2024highlight/home>

Skills

Languages  Japanese, English
Coding  Python, Geant4...
License  Museum curator (2023, Waseda University)