BIN LIU

Born in November, 1997
Phd Student
+86 187-7081-1248
liub97@126.com

RESEARCH FIELD

- Methods of dust dynamics modeling
- Analysis of dust environment around small solar system objects
- Dust activity of small solar system objects

EDUCATION

Ph.D in Aerospace Engineering Sciences | ***Advisor: Xiao-Dong Liu*** — Jun 2024 (Expected)
Sun Yat-sen University — Guangdong, China

Master in Mechanics | ***Advisor: Jia-Fu Liu*** — Jun 2021
Sun Yat-sen University — Guangdong, China

Bachelor of Civil Engineering — Jun 2017
East China Jiaotong University — Jiangxi, China

RESEARCH

- **Liu, B.**, & Liu, X. (2024). Unraveling the dust activity of naked-eye comet C/2022 E3 (ZTF). Astronomy & Astrophysics, 683, A51
- **Liu, B.**, Liu, X., Jia, X., Li, F., Zhao, Y., & Yu, L. (2023). Active asteroid 311P/PanSTARRS: Rotational instability as the origin of its multitails?. The Astronomical Journal, 166(4), 156.
- Liu, J., **Liu, B.**, Wu, Z., Jiang, J., & Tian, L. (2020). Dynamics and potential applications of a lunar space tethered system. Acta Astronautica, 169, 138-149.
- **Liu, B.**, & Liu, X. Physical Property of Newly Active Asteroid 2010 LH_{15}. The Astrophysical Journal Letters, Under Review.

CONFERENCES AND PRESENTATIONS

Planetary Radar Science Applications Seminar — 2023
Host: Tsinghua University — Beijing

2nd Near-Earth Object Response Youth Forum — 2023
Host: Nanjing University — Nanjing, Jiangsu Province

Tianwen-2 Mission 1st Academic Seminar — 2023
Host: Deep Space Exploration Laboratory — Hefei, Anhui Province

2nd National Planetary Defense Conference — 2023
Host: China National Space Administration — Yili, Xinjiang Province

1st National Planetary Science Conference — 2021
Host: China Geophysical Society — Suzhou, Jiangsu Province

HONORS AND AWARDS

1st National Scholarship for graduate student Fall 2021

2nd National Scholarship for graduate student Fall 2020

Excellent bachelor's thesis July 2017

2nd National Scholarship for graduate student Fall 2015

SKILLS

Astronomical techniques: Data reduction and analysis, image processing
Programming languag: C, Python, MATLAB, Mathematica, IDL
Word processin: LaTeX, LibreOffice (Linux), Microsoft Word (Win)
Operating systems: Ubuntu, Windows