



Research Field: SPACE AND PLANETARY SCIENCES

Focused Field: RADIATION ENVIRONMENT AND REMOTE SENSING

SHORT BIO

I obtained a Bachelor's degree in Physics (Teacher Education) from Shenzhen University in 2011, and a Master's degree in Theoretical Physics from the same institution in 2014. In 2020, I completed a Ph.D. in Particle and Nuclear Physics at the School of Physics, Sun Yat-sen University.

Afterward, I joined Prof. Zhang Xiaoping's research group at the State Key Laboratory of Lunar and Planetary Sciences, Macau University of Science and Technology, where I contributed to the scientific data analysis for China's deep space exploration projects, such as 'Chang'e-4' and 'Tianwen-1'.

Since early April 2024, I have been serving as an Assistant Professor at the same laboratory. My research currently focuses on the radiation environment of planetary surfaces and remote sensing.

Asst. Prof.

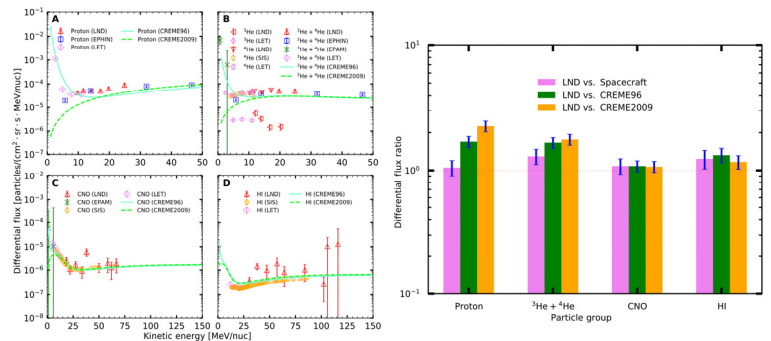
Pengwei Luo
(羅朋威)



PhD: Particle Physics and Nuclear Physics – Sun Yat-sen University (SYSU)

Master degree: Theoretical Physics– Shenzhen University (SZU)

Bachelor degree: Physics (Teacher Education) – Shenzhen University



Low-energy cosmic rays measurements on the surface of the lunar farside
Luo et al., *Sci. Adv.* (2022)

KEY PUBLICATIONS *(first/corresponding author)*

- Luo, P., et al. (2023). Plume effects on Martian surface: Revealing evolution characteristics of plume-surface interaction at Tianwen-1 landing site. **Engineering Geology**, 325, 107278.
- Luo, P., et al. (2022). First measurements of low energy cosmic rays on the surface of the lunar farside from Chang'E-4 mission. **Science Advances**, 8(2), eabk1760.
- Luo, P., et al. (2020). Precise measurements of branching fractions for D_s^+ meson decays to two pseudoscalar mesons. **Journal of High Energy Physics**, 2020(8), 146. (On behalf of BESIII Collaboration)
- Luo, P., et al. (2014). High-spin level structure of the semi-magic nucleus ^{91}Nb . **Physical Review C**, 89(3), 034318.

PROFESSIONAL EXPERIENCE

Ongoing – 2024 April – Macau University of Science and Technology, Macao (China) – Asst. Prof.

2024 April – 2020 October – Macau University of Science and Technology, Macao (China) – Post Doctoral

GRANTS

FDCT – 2022-2025 – Study on electrostatic migration mechanism of dust in space environment (Co-I)

FDCT-2019-2022 – Scientific analysis of Chang'E-4 lunar exploration data (Co-I)

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