



Research Field: ENERGETIC PARTICLES IN THE HELIOSPHERE

Focused Field: COSMIC RAYS; SOLAR ENERGETIC PARTICLES

SHORT BIO

I am now an assistant professor at the Macau University of Science and Technology (MUST). I received my Bachelor of Atmospheric Science at the Nanjing University of Information Science & Technology (NUIST) in June 2013, and then I was offered a PhD project in Space Physics jointly supervised by Prof. Jiang Yong at the NUIST and Prof. Li Gang at the University of Alabama in Huntsville (UAH).

After obtaining my doctorate in Space Physics in June 2019, I accepted a post-doctoral position at the State Key Laboratory of Lunar and Planetary Sciences of MUST. My postdoctoral supervisor is Prof. Zhang Xiaoping.

I am interested in many problems in solar physics and space plasma physics. My recent work mainly focuses on: 1) solar modulation of cosmic rays during the recent unusual minimum periods of solar cycle 24, 2) possible connection between cosmic rays and climate of the Earth, and 3) particle acceleration and transport in the heliosphere, including both observational and theoretical aspects.

Asst. Prof.

Shuai Fu (傅帥)



PhD: SPACE PHYSICS

Nanjing University of Information Science & Technology

Bachelor Degree: ATMOSPHERIC SCIENCE

Nanjing University of Information Science & Technology



KEY PUBLICATIONS (first author)

- Fu, S., et al., 2022. First report of a solar energetic particle event observed by China's Tianwen-1 mission in transit to Mars. *The Astrophysical Journal Letters* [Highlighted by AAS Nova]
- Fu, S., et al., 2021. Comparison of anomalous and galactic cosmic-ray oxygen at 1 au during 1997–2020. *The Astrophysical Journal Letters*
- Fu, S., et al., 2021. Variations of the galactic cosmic rays in the recent solar cycles. *The Astrophysical Journal Supplement Series*
- Fu, S., et al., 2020. An ACE/CRIS-observation-based galactic cosmic rays heavy nuclei spectra model II. *Science China Physics, Mechanics & Astronomy*
- Fu, S., et al., 2020. Effects of solar activity on ionospheric ion upflow during geomagnetic quiet Periods: DMSP observations. *Open Astronomy*
- Fu, S., et al., 2019. Effect of star rotation rates on the characteristics of energetic particle events. *The Astrophysical Journal Letters*

PROFESSIONAL EXPERIENCE

- 08/2022 – Present – Macau University of Science and Technology, Macau, China – Assistant Professor
- 06/2020 – 06/2022 – Macau University of Science and Technology, Macau, China – Post Doctoral
- 11/2016 – 01/2018 – University of Alabama in Huntsville (UAH), Huntsville, Alabama, USA – Visiting scholar

GRANTS

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