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教育经历

- 2021 – 至今 **中国科学院大学**
高能物理研究所
理学博士生
- 2017 – 2021 **华中科技大学**
光学与电子信息学院
工学学士

研究兴趣

- 仪器研究** **下一代 X/γ 射线空间望远镜的设计与仿真**
X/γ 探测器的地面/在轨测试与标定
数据分析方法与工具的开发
- 天体物理** **伽马暴、磁星暴发等高能暂现源的观测研究**
伽马暴的辐射机制，耗散过程与中心引擎
- 空间物理** **特殊粒子沉降事件的搜索与分析**
近地轨道与月球轨道的空间环境研究
高能大气现象与地球电子束的观测

技能

- 语言** **良好的中英文阅读与写作能力，可以流利使用中英文交流**
- 编程技能** **Python, C/C++, MATLAB, $\text{\LaTeX}$, Java, Ruby, ...**
- 网络开发** **Html, MySQL, Flask Server, Ruby on Rails Server.**
- 工具软件** **GEANT4, HEASoft, SOLIDWORKS, PSpice, Keil, Altium Designer.**

推荐专家

熊少林研究员
中国科学院高能物理研究所
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推荐专家 (continued)

Rahim Moradi 研究员

中国科学院高能物理研究所

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中国科学院高能物理研究所

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学术成果

学术期刊 (主要作者)

- 1 C.-W. Wang, S.-L. Xiong*, H.-B. Xue, *et al.*, "Pitch Angle Measurement Method based on Detector Counts Distribution. -I. Basic conception," *arXiv e-prints*, arXiv:2505.06167, arXiv:2505.06167, May 2025. arXiv: 2505.06167 [astro-ph.IM].
- 2 C.-W. Wang, S.-L. Xiong*, Y. Zhao*, *et al.*, "GECAM Discovery of Peculiar Oscillating Particle Precipitation Events," *arXiv e-prints*, arXiv:2505.06192, arXiv:2505.06192, May 2025. arXiv: 2505.06192 [astro-ph.HE].
- 3 C.-W. Wang, W.-J. Tan, S.-L. Xiong*, *et al.*, "Evolution of the Three Spectral Components in the Prompt Emission of GRB 240825A," *The Astrophysical Journal Letters*, vol. 985, no. 2, L30, p. L30, Jun. 2025.  DOI: 10.3847/2041-8213/add522. arXiv: 2503.09562 [astro-ph.HE].
- 4 C.-W. Wang, W.-J. Tan, S.-L. Xiong*, *et al.*, "A Subclass of Gamma-Ray Burst Originating from Compact Binary Merger," *The Astrophysical Journal*, vol. 979, no. 1, 73, p. 73, Jan. 2025.  DOI: 10.3847/1538-4357/ad98ec.
- 5 W.-J. Tan, C.-W. Wang, P. Zhang, *et al.*, "Search for Type II Gamma-ray Bursts: Criterion, Results, Verification and Physical Implication," *arXiv e-prints*, arXiv:2504.06616, arXiv:2504.06616, Apr. 2025.  DOI: 10.48550/arXiv.2504.06616. arXiv: 2504.06616 [astro-ph.HE].
- 6 S.-X. Yi*, C.-W. Wang*, X.-Y. Shao, *et al.*, "Evidence of Mini-jet Emission in a Large Emission Zone from a Magnetically Dominated Gamma-Ray Burst Jet," *The Astrophysical Journal*, vol. 985, no. 2, 239, p. 239, Jun. 2025.  DOI: 10.3847/1538-4357/adcf98. arXiv: 2310.07205 [astro-ph.HE].
- 7 R. Moradi*, C.-W. Wang*, B. Zhang*, *et al.*, "Temporal and Spectral Analysis of the Unique and Second-brightest Gamma-Ray Burst GRB 230307A: Insights from GECAM and Fermi/GBM Observations," *The Astrophysical Journal*, vol. 977, no. 2, 155, p. 155, Dec. 2024.  DOI: 10.3847/1538-4357/ad8a64.
- 8 H. Sun, C.-W. Wang, J. Yang, *et al.*, "Magnetar emergence in a peculiar gamma-ray burst from a compact star merger," *National Science Review*, vol. 12, no. 3, nwae401, nwae401, Mar. 2025.  DOI: 10.1093/nsr/nwae401.

- 9 C.-W. Wang, J. Zhang*, S.-J. Zheng*, *et al.*, “Simulation of the in-flight background and performance of DRO/GTM,” *Experimental Astronomy*, vol. 57, no. 3, 26, p. 26, Jun. 2024.  DOI: 10.1007/s10686-024-09946-8.
- 10 C.-W. Wang, Y.-Q. Zhang, S.-L. Xiong*, *et al.*, “Progress of GECAM Observation Research,” *Chinese Journal of Space Science*, vol. 44, no. 4, pp. 668–673, Jul. 2024.  DOI: 10.11728/cjss2024.04.2024-yg13.

书籍

- 1 S.-L. Xiong, Y.-Q. Zhang, and C.-W. Wang, *GECAM: A Gamma-Ray Monitor Constellation*, ch. Chapter 18, pp. 355–372.  DOI: 10.1142/9789819800643_0018. eprint: https://www.worldscientific.com/doi/pdf/10.1142/9789819800643_0018.

奖项与荣誉

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|------|------------------------|
| 2021 | 优秀毕业生, 华中科技大学 |
| | 优秀毕业论文, 华中科技大学 |
| 2023 | 最佳报告, 第十七届北京天文学会年会 |
| 2024 | 最佳报告, 研究生粒子天体物理学术讨论会 |
| 2025 | 三好学生, 中国科学院大学 |
| | 最佳海报, 第二届国际雷电物理与雷电气象研讨 |