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# Publications

Lastest Update: 27th June 2023  [中文 (Chinese Version)](https://easel7.github.io/publications-zh/)

## Undergraduated Thesis

* The first principle calculation on the optical property on Barium-based complex perovskite (Ba(B′B")O3Ba(B^{'}B^{"})O\_{3}Ba(B′B")O3​) [Archieved](https://github.com/easel7/easel7.github.io/blob/main/mypaper/thesis/BEng_Thesis.pdf)**Zheng Xiong** (Advisor: Wen Chen, co-Advisor: Jie Shen) , The Laboratory of functional materials for Informatics, The State Key Laboratory of Advanced Technology and For Materials Synthesis and Processing, The Wuhan University of Technology

## Research Paper

* L. Chen, **Z. Xiong**, C. Li, S. Chen, and H. He, "Strong constraints on lorentz violation using new γ-ray observations around PeV," Chinese Physics C, vol. 45, no. 10, p. 105 105, 2021. [DOI: 10.1088/1674-1137/ac1166](DOI: 10.1088/1674-1137/ac1166) (**Corresponding Author**)
* **Z. Xiong**, S. Wu, and H. H. He, "Measurement of cosmic-ray electrons with lhaaso KM2A-WCDA synergy" (article submitted for) Nuclear Instruments and Methods in Physics Research Section A, 2023.

## Conference Paper

* H. H. He, **Z. Xiong**, and S. Wu, "Method to measure muon content of extensive air showers with lhaaso km2a-wcda synergy", POS(ICRC 2023)314, Nagoya, Japan, 2023. (**Corresponding Author**)
* **Z. Xiong**, S. Wu, and H. H. He, "Measurement of cosmic-ray electrons with lhaaso km2a-wcda synergy", POS(ICRC 2023)315, Nagoya, Japan, 2023. (**Corresponding Author**)

## Popular Science Writing / Translation

* **Z. Xiong** and X. Q. Dong, “在校园捕捉来自宇宙的信息——2021年“国际宇宙日”活动概览(to capture the information from universe at campus - digest on 2021 cosmic day),” Modern Physics, vol. 34, no. 02, pp. 47–53, 2022, ISSN: 1001-0610.[DOI: 10.13405/j.cnki.xdwz.2022.02.017.](DOI: 10.13405/j.cnki.xdwz.2022.02.017.) (**Corresponding Author**)
* **ParadoX**, “超越费米悖论(Beyond Fermi Paradox),” in ser. Beyond Fermi Paradox 8/16, Mar. 2021. [URL: https://mp.weixin.qq.com/s/9EqbGyC7wJtVuMysE7N1sA](URL: https://mp.weixin.qq.com/s/9EqbGyC7wJtVuMysE7N1sA).
* **ParadoX**, “天文学家如愿以偿得到了想要的数据,却发现“哈勃常数危机”加剧了(Astronomers Get Their Wish, and a Cosmic Crisis Gets Worse),” in ser. IHEP Doctorial Scope 1/3, Dec. 2020. [URL: https://mp.weixin.qq.com/s/hPDKQVW60trVTOAw8Mrp\_A](URL: https://mp.weixin.qq.com/s/hPDKQVW60trVTOAw8Mrp\_A).
* **ParadoX**, “天文学家的备忘手册(Astronomer’s Toolbox),” in ser. Astronomer’s Toolbox, 2020. <URL:https://mp.weixin.qq.com/s/l0kYWIsxJZn-FotJNb-BAA>.