

ZHE-YU LIN (林哲宇)

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[Publication List](#)

EDUCATION

- Ph.D in Astronomy, University of Science and Technology of China, Hefei, China 2020–2025.6
Thesis: Investigating Tidal Disruption Events Based on Wide Field Sky Surveys (Anticipated)
Supervisors: Prof. Xu Kong & Dr. Ning Jiang
- B.S in Astronomy, University of Science and Technology of China, Hefei, China 2016–2020
Thesis: Probing Tidal Disruption Events: Why, How?
Supervisor: Prof. Xu Kong
- Languages: Chinese - Mandarin (native), Teochew (native), Cantonese (fluent); English (fluent)

RESEARCH INTERESTS

My research interests tightly connect with transients around the supermassive black holes (NTs; SMBHs), especially tidal disruption events (TDEs) and turn-on active galaxies (AGNs).

- Enlarge the sample of NTs by time-domain surveys, and summarize their collective features.
- Unveil the nature of TDEs and turn-on AGNs by multiwavelength emission and spectroscopy.
- Find the clues to how central activities affect the whole galaxy formation.
- Explore the unknown parameter space, trying to find new kinds or features of transients.

PROJECTS

- Long-term monitoring of nuclear transients 2022-Present
 - Experience in Swift / XMM-Newton / Einstein Probe (EP) / spectroscopy applications (>200 ks/>100 ks/>100 ks/>10 nights awarded) and data analysis.
 - Expertise in collecting multiwavelength historical data and discovering meaningful features.
 - Two papers published in the ApJ Letters.
- Searching TDEs by Wide Field Survey Telescope (WFST) 2020-Present
 - One mock observation paper published in the MNRAS.
 - Building WFST differential photometry database and TDE filters.

SCHOLARSHIPS

- National Scholarship for Ph.D. Students, 2024.
- CASC Scholarship, First Prize, 2023.
- WFST Scholarship, Second Prize, 2023.
- WFST Scholarship, First Prize, 2022.

POSITIONS OF RESPONSIBILITY

- Volunteer for USTC Astronomy Summer Camp Summer 2022
- Teaching Assistant for Stellar Structure and Evolution (ASTR6003P) Fall 2021
- Minister of Academy for USTC English Club (EC) Fall 2017 - Summer 2018
 - The designer and organizer of “USTC Mystery Hunt” – an outdoor mystery solving game. Following the great success, it has been held as a (bi-)annual activity for seven times and imitated by other clubs
 - The creator of the award-winning official account of EC
- Assistant of Study Affairs for Class 2, Grade 2016, School of Physics Fall 2016 - Summer 2017

PRESS (IN ENGLISH)

- [This unlucky star got mangled by a black hole – twice](#), *Nature Research Highlights* August 2024
- [‘Unluckiest star’ may be trapped in deadly dance with a black hole](#), *New Scientist* May 2024

SELECTED TALKS

- Transient Phenomena and Physical Processes around SMBHs, Tsung-Dao Lee Institute October 2024
- TDEs and NTs: Entering the Data-Rich Era, Heraklion, Crete, Greece September 2024
- Altay time-domain science seminar, Altay, Xinjiang August 2024
- Prof. Jane Dai’s group seminar, Hong Kong University August 2024
- Einstein Probe/WFST time-domain science seminar, Lenghu, Qinghai August 2023

EXTRA-CURRICULAR AWARDS

- Second place in the 1st popular science article competition, held by the National Astronomical Observatories of the Chinese Academy of Sciences (NAOC), 2024. Awarded article: *Hunting the beasts in the center of galaxies: A story of supermassive black holes*.
- “Gold dolphin” award of 50m breaststroke swimming (finish in 50 seconds), 2023.
- “Outstanding official account” award for the USTC English Club, as the creator and administrator, 2018.

PUBLICATIONS BY OCT. 31 2024

[Full List on NASA/ADS](#)

3 PAPERS AS THE FIRST OR CORRESPONDING AUTHOR:

3. **Lin Zheyu**, Jiang Ning, Wang Tinggui, Kong Xu, et al., [The unluckiest star: A spectroscopically confirmed repeated partial tidal disruption event AT 2022dbl](#), 2024, *ApJL*, 971, L26. (Cited 8, selected as Nature research highlight)
2. **Lin Zheyu**, Jiang Ning, Kong Xu, et al., [The Luminosity Function of Tidal Disruption Flares for the ZTF-I Survey](#), 2022, *ApJL*, 939, L33. (Cited 20)
1. **Lin Zheyu**, Jiang Ning & Kong Xu, [The prospects of finding tidal disruption events with 2.5-m Wide-Field Survey Telescope based on mock observations](#), 2022, *MNRAS*, 513, 2422. (Cited 18)

11 PAPERS AS THE CO-AUTHOR:

11. Yao Yao, Wang Enci, He Zhicheng, **Lin Zheyu**, et al., [Bipolar blobs as evidence of hidden AGN activities in the low-mass galaxies](#), 2024, *ApJL*, 972, L16.
10. Luo Yibin, Fan Lulu, Liang Yongming, et al., [Ly \$\alpha\$ imaging around the hyperluminous dust-obscured quasar W2246–0526 at \$z = 4.6\$](#) , 2024, *ApJ*, 972, 51.
9. Wang Yibo, Wang Tinggui, Jiang Ning, et al., [ASASSN-18ap: A Dusty Tidal Disruption Event Candidate with an Early Bump in the Light Curve](#), 2024, *ApJ*, 966, 136.
8. Huang Shifeng, Jiang Ning, Zhu Jiazheng et al., [AT 2023lli: A Tidal Disruption Event with Prominent Optical Early Bump and Delayed Episodic X-Ray Emission](#), 2024, *ApJL*, 964, L22.
7. Chen Lijun, Zhang Hong-Xin, Lin Zesen, et al., [Dwarf Galaxies with the Highest Concentration Are Not Thicker than Ordinary Dwarf Galaxies](#), 2023, *ApJ*, 958, 117.
6. Huang Shifeng, Jiang Ning, **Lin Zheyu**, et al., [AT2018dyk revisited: a tidal disruption event candidate with prominent infrared echo and delayed X-ray emission in a LINER galaxy](#), 2023, *MNRAS*, 525, 4057.
5. Wang Tinggui, Liu Guilin, Cai Zhenyi, et al., [Science with the 2.5-meter Wide Field Survey Telescope \(WFST\)](#), 2023, *SCPMA*, 66, 109512.
4. Zhu Jiazheng, Jiang Ning, Wang Tinggui, et al., [AT 2023clx: The Faintest and Closest Optical Tidal Disruption Event Discovered in Nearby Star-forming Galaxy NGC 3799](#), 2023, *ApJL*, 952, L35.
3. Liu Zheng-Yan, **Lin Zhe-Yu**, Yu Ji-Ming, et al., [Target-of-Opportunity Observation Detectability of Kilonovae with WFST](#), 2023, *ApJ*, 947, 59.
2. Luo Yibin, Fan Lulu, Zou Hu, et al., [An Overdensity of Red Galaxies around the Hyperluminous Dust-obscured Quasar W1835+4355 at \$z = 2.3\$](#) , 2022, *ApJ*, 935, 80.
1. Wang Yibo, Jiang Ning, Wang Tinggui, et al., [Discovery of ATLAS17jrp as an Optical-, X-Ray-, and Infrared-bright Tidal Disruption Event in a Star-forming Galaxy](#), 2022, *ApJL*, 930, L4.