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RESEARCH INTERESTS

Galaxy Evolution, Galaxy Structure, High Redshift Galaxies, Chemical Abundances

EDUCATION

Msc(Astronomy) 2023-2026

University of Science and Technology of China, Hefei, People's Republic of China

Purple Mountain Observatory, CAS, Nanjing, People's Republic of China

✓ GPA: 3.37/4.3

✓ *Related coursework:*

Galactic Astronomy, Radiative Processes in Astrophysics, Astronomical software and programming technology, Fundamental Astrophysics, Cosmology, Radio Astronomy, Statistical Methods in Astrophysics

Bsc(Physics) 2019-2023

Jilin University, Changchun, People's Republic of China

✓ *Related coursework:*

- Mathematics: Advanced Mathematics, Linear Algebra, Probability Theory.
- Physics: Thermodynamics and Statistical Mechanics, Electrodynamics, Computational Physics, Mechanics, Optics, Thermodynamics, Electromagnetism, Theoretical Mechanics, Mechanical Engineering, and Physics. Magnetism, Theoretical Mechanics.

RESEARCH PROJECTS

Disclosing Submillimeter Galaxy Formation: Mergers or Secular Evolution?

- ✓ **Status:** Under review at ApJ (Independent Research Project)
- ✓ **Purpose:** Investigate formation mechanisms of Sub-millimeter Galaxies (SMGs) using morphological diagnostic tools
- ✓ **Methods:**
Classified bulge types using Sérsic index, bulge-to-total-luminosity-ratio, CAS system, Gini-M20 plot, and stellar bar identification
- ✓ **Findings & Conclusion:**
 - Identified 24% with merger signatures
 - Majority of SMGs clusters in the area with high B/T but low sérsic
 - **Secular evolution takes precedence over mergers**, in which merger acts only as a booster for star formation activities, suggesting that filamentary gas inflow plays a key role in bulge formation

Origins of SMGs via Metallicity Gradient

- ✓ **Status:** In Prep. (Independent Research Project)
- ✓ **Purpose:** Again, the origin of the submillimeter galaxies, but this time with the metallicity gradient via resolved sed fitting, still in its initial stage.
- ✓ **Methods:** Resolved SED fitting

CERTIFICATIONS & AWARDS

- ✓ Honorable Mention — The Mathematical Contest in Modeling(MCM)(2022)

SKILLS

Tech-related

- Python
- Linux Commands

Languages

- Chinese (Mandarin + Cantonese): Native
- English: Second language, Fluent
- ✓ IELTS: Listening - 7.5, Reading - 8.5, Writing - 7.0, Speaking - 6.5
Overall band Score - 7.5
- ✓ CET4: 590, CET6: 589

Typesetting

- L^AT_EX: