



Ziyi Guo

ORCID: 0000-0002-7532-1496

Ph.D. student

Nanjing University

+86-18066047815

✉ zygao@smail.nju.edu.cn

✉ zygao.astro@gmail.com

🌐 GuoZiYi-astro

EDUCATION

•Nanjing University, Ph.D. student

2020–today

School of Astronomy & Space Science, China

•Shandong University, BSc.

2016–2020

School of Physics, China

PAPERS

•First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function

the Astrophysical Journal

2024-08

CONTRIBUTORS: Ziyi Guo; Zhi-Yu Zhang; Zhiqiang Yan; Eda Gjergo; Rob Ivison; Allison Man; Xiaoting Fu; Yong Shi.

•A SPectroscopic survey of biased halos In the Reionization Era (ASPIRE): Impact of Galaxies on the Circumgalactic Medium Metal Enrichment at $z > 6$ Using the JWST and VLT

The Astrophysical Journal Letters

2024-03

CONTRIBUTORS: Zou Siwei; Cai Zheng; Wang Feige; Fan Xiaohui; Champagne Jaclyn B.; Hennawi Joseph F.; Schindler Jan-Torge; Farina Emanuele Paolo; Yang Jinyi; Inayoshi Kohei; Bañados Eduardo; Bosman Sarah E. I.; Li Zihao; Lin Xiaojing; Wu Yunjing; Sun Fengwu; Guo Ziyi; Kulkarni Girish; Habouzit Mélanie; Charlot Stephane; Chevallard Jacopo; Connor Thomas; Eilers Anna-Christina; Jiang Linhua; Jin Xiangyu; Kakiichi Koki; Li Mingyu; Meyer Romain A.; Walter Fabian; Zhang Huanian

• α -enhanced astrochemistry: the carbon cycle in extreme galactic conditions

Monthly Notices of the Royal Astronomical Society

2024-01

CONTRIBUTORS: Thomas G. Bisbas; Zhi-Yu Zhang; Eda Gjergo; Ying-He Zhao; Gan Luo; Donghui Quan; Xue-Jian Jiang; Yichen Sun; Theodoros Topkaras; Di Li; Ziyi Guo

•Properties of Dense Molecular Gas along the Major Axis of M82

The Astrophysical Journal

2022-07-01

CONTRIBUTORS: Fei Li; Zhi-Yu Zhang; Junzhi Wang; Feng Gao; Shanghuo Li; Jing Zhou; Yichen Sun; Ziyi Guo; Shu Liu.

TALKS

•Astronomy Talk

2024-03

ORGANIZER: Istituto Nazionale di Astrofisica, Osservatorio di Astrofisica e Scienza dello Spazio di Bologna

First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function

•Cosmic Threads: Interlinking the stellar Initial Mass Function from Star-birth to Galaxies

2024-03

ORGANIZER: Sexten Center for Astrophysics (SCfA) "Riccardo Giacconi"

First detection of CO isotopologues in a high-redshift main-sequence galaxy: evidence of a top-heavy stellar initial mass function

•The 3rd International Workshop on Origin of Elements and Cosmic Evolution

2023-11

ORGANIZER: Beihang University; International research Institute for Multidisciplinary Science; Institute of Nuclear Astrophysics of China; COSNAP

From Stellar yield to Evolution of the Universe – The First detection of CO isotopologues in high- z Main Sequence galaxy: Evidence of a top-heavy IMF

•Nearby and Distant Star Formation Conference

2023-07

ORGANIZER: Yunnan Observatories, Chinese Academy of Sciences

The First detection of CO isotopologues in high- z Main Sequence galaxy: Indications of a Top-heavy IMF

•Seminar

2023-03

ORGANIZER: Tsinghua University

The First detection of CO isotopologues in high- z Main Sequence galaxy: Indicate top-heavy IMF

•Gravitational Lensing Spring Conference

2023-03

ORGANIZER: Beijing Normal University

Constrain the Initial Mass Function in Main-Sequence Galaxies at $z \sim 2$

ACHIEVEMENTS

- Tiangong Scholarship2024
- Institute for nuclear astrophysics of China award for young scientist2023
For outstanding presentation at the Pre-Workshop of the 3rd International Workshop on ‘Origin of Elements and Cosmic Evolution’.

TECHNICAL SKILLS AND INTERESTS

Languages: Chinese, English, python
Software Skills: GalCEM, NuPyCEE, CASA
Areas of Interest: Galactic chemical evolution; high-z galaxies; ALMA observations