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🌐 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

Submitted to the Astrophysical Journal

2024-02

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

• 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; Zi-Yi 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; Zi-Yi Guo; Shu Liu.

TALKS

•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 Scholarship

2024

•Institute for nuclear astrophysics of China award for young scientist

2023

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

Soft Skills: GalCEM, NuPyCEE, CASA

Areas of Interest: Galactic chemical evolution