Lulu Zhang

Curriculum Vitae

Kavli Institute for Astronomy and Astrophysics
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↑ http://zhangl1995.github.io

Research Interests

- o Characteristics of polycyclic aromatic hydrocarbons in different types of galaxies
- o Spatially resolved studies of the interstellar medium in nearby galaxies
- Feedback of star formation & AGN activities on molecular gas
- Multiwavelength diagnositics of galaxy properties

Education

2017-present **PhD candidate, Astrophysics**, *Peking University*, Beijing, China.

Advisor: Luis C. Ho

2013–2017 **BS, Applied Physics**, *Shandong University, Weihai*, Weihai, China.

Awards

2017 - 2021 Award for Academic Excellents

Award for Research Excellents

2017 Award for Outstanding Undergraduate of Shandong Province

Award for Outstanding Undergraduate Thesis (Advisor: Lulu Fan)

2013 – 2016 The First Prize of Shandong University Scholarship

Award for 100 Outstanding Undergraduates

Assets

- \circ Experienced in reducing IFU-like and IFU data cube of Spitzer/IRS and VLT/MUSE
- Experienced in reducing multiband imaging data of GALEX, 2MASS, WISE, AKARI/IRC, Spitzer/IRAC, Spitzer/MIPS, and etc.
- Familiar with reducing BIMA SONG CO J(1-0) data and THINGS HI data
- Experienced in Python programing
- Experienced in MIR/Optical full spectrum fitting using our own code and pPXF
- Experienced in galaxy 2-dimensional fitting using MgeFit & GALFIT
- Experienced in galaxy dynamics and kinematics modeling using JAM
- o Familiar with Bayesian statistics and Markov Chain Monte Carlo method

Approved Proposal

3.6m Devasthal Optical Telescope (DOT-2021-C2-P63; Co-I.), Unraveling the Hot Molecular and Ionized Gas in the Inner Kilo-parsecs of Nearby Active Galaxies, PI: Ravi Joshi.

Conferences & Workshop

- 2021 Nov KIAA Forum on Gas in Galaxies: for Early Career Scientists, Online, (oral talk).
- 2021 Oct Chinese Astronomical Society Annual Meeting, Nanchong, China, (oral talk), postponed.
- 2021 Oct East Asia AGN Workshop 2021, Chongqing, China, (poster).
- 2021 June The 11th C-MaNGA Workshop and the CSST-IFS Science Meeting, Zhuhai, China, (oral talk, session chair), postponed.
- 2021 May The 23th Guoshoujing Workshop and the Galaxy & Cosmology Frontier Workshop 2021, Hangzhou, China, (poster).
- 2020 Oct Super Massive Black Hole Workshop, Lijiang, China, (oral talk).
- 2019 Sep KIAA Forum on Gas in Galaxies: Probing the Activities and Power Engines from Local to Distant Universe, Beijing, China, (poster).
- 2019 Sep Chinese Astronomical Society Annual Meeting, Delingha, China, (oral talk).
- 2019 Jan East Asia AGN Workshop 2019, Taipei, China, (poster).
- 2018 July Thirty Meter Telescope-MICHI and China: a Workshop on Thermal-IR Astronomy, Beijing, China, (oral talk).
- 2018 July The 20th Guoshoujing Workshop and the Galaxy & Cosmology Frontier Workshop 2018, Sanmenxia, China, (poster).

Publications

- Zhang, L., Ho, L. C., & Xie, Y., "A Method to Extract Spatially Resolved Polycyclic Aromatic Hydrocarbon Emission from Spitzer Spectra: Application to M51", 2021, The Astronomical Journal, 161, 29
- 2022 Zhang, L., Ho, L. C., & Li, A., "Evidence that Shocks Destroy Small PAH Molecules in Low-luminosity Active Galactic Nuclei", 2022, submitted
- 2021 Zhang, L., & Ho, L. C., "The Quantification for Contribution of Evolved Stars on Mid-Infrared Aromatic Emission", 2022, to be submitted
- 2021 Zhang, L., & Ho, L. C., "The Mechanism for Tight Correlation between PAH Emission and Molecular Gas", 2022, to be submitted
- 2021 Zhang, L., & Ho, L. C., "The Implication for Feedback from Gas Kinematics", 2022, in preparation

Outreach

- 2020 Spring TA for Graduate Course "Astrophysics of Diffuse Interstellar Medium" (Online)
- 2019 2021 Volunteer Cashier for Graduates' Funding (Donated by Graduates) of KIAA
- 2019 2020 Volunteer Manager for a Astro-wiki Page of our Biweekly ISM&Galaxy Group Meeting
 - 2019 Oct LOC for International Conference "Cosmic Evolution of Quasars" at KIAA
 - 2019 Sep Volunteer for International Conference "KIAA Forum on Gas in Galaxies" at KIAA
- 2018 2019 Volunteer Organizer for Weekly "Happy Hour" of KIAA
 - 2018 May Volunteer for the 120th Anniversary of Peking University