YUNTING WANG

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EDUCATION

Department of Astronomy, Xiamen University

Sep. 2017 - Present

Bachelor of Science Expected Graduation: Jun 2021

· Overall GPA: 87.34/100 (Rank: 2/12) TOFEL iBT: 111/120 (Speaking: 27)

PROGRAMMING EXPERIENCE

Python (Experienced): Model Fitting, Data Reduction & Visualization

Basic Proficiency: Shell, C, R, SQL, CIAO, XSPEC, Machine Learning Algorithms

OBSERVING EXPERIENCE

Co-I, Five-hundred-meter Aperture Spherical radio Telescope (FAST) (2020.9)

Probing the HI Gas Contents of Transitional Galaxies Indicated by the [NII]/[SII] ratios

ID: PT2020_0186, allocated 11.2 hours, PI: Prof. Taotao Fang

RESEARCH EXPERIENCE

Exploring Transitional Galaxies Indicated by [NII]/[SII] ratios Jul. 201

Jul. 2019 - Present

- Advisor: Prof. Lei Hao Shanghai Astronomical Observatory, Chinese Academy of Sciences

 · Motivated by the unusually high-[NII]/[SII]-ratio found in FUV-luminous galaxies noted in previous
- works. • Explored distributions of [NII] and [SII] in SDSS IV MaNGA(Mapping Nearby Galaxies at APO) MPL-8 data of 6500 galaxies with their BPT classifications by mapping $[H\alpha]/[NII]$ - $[H\alpha]/[SII]$.
- · Discovered five galaxies with unusually prominent [NII]/[SII] ratio, extracted spectroscopy and mapped their flux and dynamic properties to exclude possible mechanisms.
- \cdot Proposed to probe the HI gas contents of 5 galaxies with high [NII]/[SII] ratios and 11 with moderate [NII]/[SII] ratios through FAST.

Mapping the Star Formation Rate Change in M99 (NGC4254)

Jun. 2020 - Present University College London

- Advisor: Prof. Amelie Saintonge
 Univ
- · Mosaicked VLT MUSE (Multi Unit Spectroscopic Explorer) data cubes into one for NGC4254. Extracted and matched point-like sources to correct the coordinate shifts in the cubes.
- · Ran narrowband $H\alpha$ fitting on MUSE data cube. Smoothed MUSE data and combined it with ultraviolet data from GALEX (Galaxy Evolution Explorer) and SDSS g band data, and produced the color-color plot to indicate the star formation history.
- · Ran the CIGALE (Code Investigating GALaxy Emission) SED (Stellar Energy Distribution) code to model the spectra given different star formation histories, and compared them with observation.
- · Currently working on improving the fitting accuracy using LZIFU(IDL fitting package based on pPXF), modeling non-parametric star formation histories, and extending the study on other nearby galaxies, e.g. NGC5068 and NGC1365.

HONORS & AWARDS

| Xiamen International Bank Scholarship | 03/2020 |
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| Undergraduate Research & Training Program, Chinese Acedemy of Sciences | 06/2019 |
| Guangqi Scholarship of Shanghai Astronomical Observatory | 2018, 2019 |
| Scholarship of Academic Excellence, Xiamen University | 2018, 2019 |