

Qingzheng Yu

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EDUCATION

Ph.D. in Astrophysics

Sep. 2017 - present

Department of Astronomy, Xiamen University, Fujian, China

- Advisor: Prof. Taotao Fang

Bachelor of Science in Physics

Sep. 2012 - Jun. 2016

Department of Physics, Guangzhou University, Guangdong, China

RESEARCH INTERESTS

Galaxy Formation and Evolution, Circumgalactic Medium, Gas Recycling and Star Formation of Galaxies, Galaxy Interactions and Mergers, H I Absorption Survey towards Radio AGN

ACCEPTED PROPOSALS

PI, 40 h, FAST

2022

PT2022_0090, A Survey of H I Absorption in Faint Radio AGNs at $z < 0.1$

PI, 39 h, IRAM 30 m

2022A

029-22, Unveiling the cold Gas Evolution of MaNGA Merging Galaxies

PI, 12.6 h, FAST

2021

PT2021_0067, A Pilot Survey of H I Absorption in faint radio AGNs

PI, 17.8 h, IRAM 30 m

2021DDT

E01-21, Unveiling the cold Gas Evolution of MaNGA Merging Galaxies

PI, 21 h, JCMT

2021B

M21BP051, Probing the Cold Gas Evolution of MaNGA Merging Galaxies

PI, 1 night, P200/Hale

TAP 2021B

CTAP2021-B0019, Probing the Circumgalactic Medium of Galaxy Mergers with Deep H α Imaging

PI, 11 h, GBT

2021A

GBT-21A-245, Probing the H I content of Merging Galaxies in MaNGA

PI, 1 night, P200/Hale

TAP 2021A

CTAP2021-A0034, Probing the Circumgalactic Medium of Galaxy Mergers with Deep H α Imaging

PI, 4 h, FAST

2020

PT2020_0152, Probing the H I content of Merging Galaxies in MaNGA

Co-I, 26 h, FAST	2021
PT2021_0040, Unveiling the Interaction between the Magellanic Stream and the Milky Way's Circumgalactic Medium	
Co-I, 30 h, FAST	2021
PT2021_0139, Search for Extragalactic H I Absorption Systems in the Redshift Range of 0.25-0.35	
Co-I, 2 h, FAST	2021
PT2021_0120, Two Quiescent Close Binary Systems that Contain a Candidate Neutron Star	
Co-I, 11 h, FAST	2020
PT2021_0186, Probing the H I Gas Contents of Transitional Galaxies Indicated by the [N II]/[S II] ratios	
Co-I, 3 h, FAST	2020
PT2021_0147, Direct Observation of the H I Disk of Massive Spiral Galaxy: A Pilot Study of NGC 891	
Co-I, 7 h, FAST	Shared risk 2019
2019a-005-S, Connecting the Circumgalactic Medium and the H I content of the redshift ~ 0.2 galaxies: A pilot study	

OBSERVING EXPERIENCE

Radio single-dish spectroscopy and mapping:

[FAST](#), H I spectral line observations of nearby galaxies, pool, 38 h
[FAST](#), H I mapping of high-velocity clouds, pool, 26 h
[GBT](#), H I spectral line observations of nearby galaxies, pool, 11h
[IRAM 30m](#), CO spectral line observations of nearby galaxies, remote, 149 h
[JCMT](#), CO spectral line observations of nearby galaxies, pool, 21 h
[Parkes](#), H I spectral line observations of nearby galaxies, remote, 22 h

Optical imaging and spectroscopy:

[P200/Hale](#), narrow-band imaging of nearby galaxies with WaSP, remote, 2 nights
[P200/Hale](#), spectroscopic observations of nearby galaxies with DBSP, remote, 1 night

CONFERENCE CONTRIBUTION

On the H I Content of MaNGA Major Merger Pairs	08/2022
-Contributed talk on "IAUGA 2022 Symposium 373"	

COMMUNITY SERVICE

Member of the FAST User Committee

SKILLS

Languages: Chinese, English
Programming: Python, IDL, Matlab
Software & Tools: GBTIDL, Starlink, MIRIAD, IRAF, GILDAS

PUBLICATIONS

Yu Q., Fang T., Feng S., Zhang B., Xu C. K., Wang Y., Hao L., *On the HI Content of MaNGA Major Merger Pairs*, 2022, [ApJ](#), 934, 114

Zhang B., Zhu M., Wu Z.-Z., **Yu Q.-Z.**, et al., *Extragalactic HI 21-cm absorption line observations with the Five-hundred-meter Aperture Spherical radio Telescope*, 2021, [MNRAS](#), 503, 5385