

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, HI Absorption Survey towards Radio AGN

ACCEPTED PROPOSALS

PI, 12.6 h, FAST

2021

PT2021_0067, A Pilot Survey of HI Absorption in faint radio AGNs

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 HI 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 HI content of Merging Galaxies in MaNGA

Co-I, 26 h, FAST

2021

PT2021_0020, Unveiling the Interaction between the Magellanic Stream and the Milky Way's Circumgalactic Medium

Co-I, 30 h, FAST

2021

PT2021_0090, Search for Extragalactic HI 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 HI 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 HI 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 HI content of the redshift ~ 0.2 galaxies: A pilot study

OBSERVING EXPERIENCE

Radio single-dish spectroscopy and mapping:

FAST, HI spectral line observations of nearby galaxies, remote, 38 h

FAST, HI mapping of high-velocity clouds, remote, 26 h

JCMT, CO spectral line observations of nearby galaxies, remote, 21 h

GBT, HI spectral line observations of nearby galaxies, remote, 11h

Parkes, HI 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

SKILLS

Languages: Chinese, English

Programming: Python, IDL, Matlab

Software & Tools: GBTIDL, Starlink, MIRIAD, IRAF, GILDAS

COMMUNITY SERVICE

Member of the FAST User Committee

PUBLICATIONS

Yu et al., *On the HI Content of MaNGA Major Merger Pairs*, to be submitted.

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](#)