Yuanze DING

Physics Ph.D. Candidate

Email: yding@caltech.edu ORCID: 0000-0002-5770-2666

EDUCATION

Wuhan University, Wuhan, Hubei province, ChinaSeptember 2018 - June 2022B.S. in Physics, School of Physics and Technology & Honor Science Program of Hongyi CollegeCumulative GPA: 3.88/4.00, rank 1/44

California Institute of Technology, Pasadena, CA, United States **Ph.D. in Physics**, Division of Physics, Mathematics and Astronomy Advisor: Prof. Fiona Harrison September 2022 - Present

PUBLICATIONS

Yuanze Ding, Javier A. García, Timothy R. Kallman et al., *Next Generation Accretion Disk Reflection Model: High-Density Plasma Effects*, submitted to ApJ.

Yuanze Ding, Javier A. García, Timothy R. Kallman & Fiona A. Harrison, Implementing High Density Corrections in Accretion Disk Reflection Model, 2023, American Astronomical Society Meeting Abstracts, 55, Article 124.08

Yuanze Ding, Ruancun Li, Luis C. Ho and Claudio Ricci, *Accretion Disk Outflow during the X-ray Flare of the Super-Eddington Active Nucleus of I Zwicky 1*, 2022, ApJ, 931, 77.

Yuanze Ding et al., QPOs and orbital elements of X-ray binary 4U 0115+63 during the 2017 outburst observed by Insight-HXMT, 2021, MNRAS, 503, 4, 6045.

Yuanze Ding et al., *Timing and spectral variability of high mass X-ray pulsar GX 301–2 over orbital phases viewed by Insight-HXMT*, 2021, MNRAS, 506, 2, 2712.

X. Chen, W. Wang, Y. M. Tang and **Yuanze Ding** et al., *Relation of cyclotron resonant energy and luminosity in a strongly magnetized neutron star GRO J1008-57 observed by Insight-HXMT*, 2021, ApJ, 919, 33.

X. Chen, W. Wang, and Yuanze Ding et al., *Wavelet analysis of MAXI J1535-571 with Insight-HXMT*, submitted to MNRAS.

Q. Liu, W. Wang, and X. Chen and **Yuanze Ding** et al., *Variations of cyclotron resonant scattering features in Vela X-1 revealed with Insight-HXMT*, in prep.

Selected Honors and Awards

Caltech C Fellowship California Institute of Technology	September 2022
Ramon Scholarship of Wuhan University 4/524, Wuhan University	May 2022
First-class Scholarship of Wuhan University top 5%, Wuhan University	October 2019&21
First-class Scholarship for excellent young Astronomers 1/524, National Astronomical Observatories	October 2019
Model Student at Wuhan University top 10%, Wuhan University	October 2019&20&21
National Astronomical Observatories Scholarship 3/524, National Astronomical Observatories	October 2020
1st Prize, 12th Chinese Undergraduate Physics Tournament of Central and South China Leader of Top 2 team, Ministry of Education of China	May 2021
1st Prize, Outstanding Undergraduate Students in Academic Record Top 7 undergraduate students in China, Ministry of Education of China	November 2021
1st Prize, President scholarship for creative learning 12/30000, Wuhan University	November 2021

COMMUNITY ENGAGEMENT & VOLUNTEER ACTIVITY

Chorus of Physics Department

Organize chorus training and performance.
Accompany for the department chorus. We winned the highest place since 2016 in campus culture festival. October 2018 - January 2020 Reading to the Blind

- Read physics text book for the Blind
- Helped a talented blind person complete his book, which is about mathematical method in physics.

Leadership in the astronomy class

- Serve as a vice-monitor in the astronomy class of physics department.
- Organize class activity, introducing research field of astronomy faculties in WHU.
- Passing information from department to students

SKILLS AND LANGUAGES

Programming language & software: Bash, Python, Fortran, C, Matlab, Mathematica, Zeus-mp and LaTex Language: Mandarin Chinese (native), English (IELTS 7.5)

December 2021

October 2018 - January 2020

October 2018 - January 2020