Yunyang Li

Curriculum Vitae/Oct. 2023

Cosmology Group, CCA, 2023

Cosmo Group, Princeton, 2023

W&C Seminar, JHU, 2020

AAS 231, DC, 2018

CONTACT

Department of Physics & Astronomy yunyangl@jhu.edu \vee Johns Hopkins University liyunyang.github.io $0000 \hbox{-} 0002 \hbox{-} 4820 \hbox{-} 1122$ Bloomberg 203 ø 3400 N. Charles St. Baltimore, MD, 21218 \mathbf{C} github.com/LiYunyang

EDUCATION

Ph.D. Astrophysics. Johns Hopkins University. Advisor: Tobias A. Marriage 2018-2024 B.Sc. Physics. Peking University. Advisor: Joel N. Bregman 2013 - 2017

RESEARCH EXPERIENCE

Graduate Research Assistant Johns Hopkins University, 2018,2020–2024 Research Assistant Peking University, 2017–2018 Univ. of Michigan, Ann Arbor, 2016–2017 Visiting Research Scholar

RESEARCH INTERESTS

cosmic microwave background; cosmology; data analysis; statistics; high-performance computing

REFERENCES

Letter writers

Tobias A. Marriage | Professor | marriage@jhu.edu | 2018 -Johns Hopkins Univ. Charles L. Bennett | Bloomberg Distinguished Prof. | cbennett@jhu.edu | 2018 -Johns Hopkins Univ. Adam D. Hincks | Assistant Professor | adam.hincks@utoronto.ca | 2020 -University of Toronto

Additional references

Renxin Xu | Professor | r.x.xu@pku.edu.cn | 2017 -Peking University Joel N. Bregman | H.D. Curtis Prof. | jbregman@umich.edu | 2016 -Univ. of Michigan, Ann Arbor

COLLABORATION

Cosmology Large Angular Scale Surveyor (CLASS) Collaboration 2018 -Hot Universe Baryon Surveyor (HUBS) Collarboration 2018 -

SELECTED AWARDS

Peking University, 2016 May-the-Fourth Scholarship CSC Visiting Fellowship China Scholarship Council, 2016 Academic Excellence Award Peking University, 2016 Social Work Award Peking University, 2014 Mizuho Scholarship The Affiliated High School of Peking University, 2013

TALK & PRESENTATION

Towards recovery of the largest-scale polarization with CLASS: Data Pipeline Development and First Linear

Polarization Survey Results AAS 243 Dissertation talk, LA, 2024 FPD Seminar, SLAC, 2023 CLASS: Recent Progress and the 40 GHz Results invited CLASS: Recent Progress and the 40 GHz Results invited W&C Seminar, JHU, 2023

CLASS: Recent Progress and the 40 GHz Results Atmospheric Cloud Polarization

Constraints on CMB Temperature evolution with SZ clusters invited

The properties of the Galactic hot gaseous halo from X-ray emission

AAS 231, DC, 2018 Is Calvera a strangeon star? The hot gaseous halo of the Milky Way including radiative transfer effects AAS 229, TX, 2017

TEACHING

Introduction to Galaxies and Active Galactic Nuclei (TA, 171.314) General Physics/Lab II (TA, 171.104)

Johns Hopkins Univ., Spring, 2020 Johns Hopkins Univ., Spring, 2019

OUTREACH

Johns Hopkins Physics Fair Introduction to Astronomy and Physics Baltimore, MD, 2019

Tangnan Second Middle School, Jiangxi, 2014

PUBLICATIONS (D)



AS FIRST AUTHOR

5. CLASS Observation of Atmospheric Cloud Polarization at Millimeter Wavelengths

YL & CLASS Collaboration

ApJ Accepted

4. CLASS Data Pipeline and Maps for 40 GHz Observations through 2022

YL & CLASS Collaboration

ApJ 956, 77 (2023)

3. Constraining Cosmic Microwave Background Temperature Evolution With Sunyaev-Zel'Dovich Galaxy Clusters from the Atacama Cosmology Telescope

YL; Hincks, Adam D. & ACT Collaboration

ApJ 922, 136 (2021)

2. Calvera: a low-mass strangeon star torqued by debris disk?

YL; Wang, Weiyang; Ge, Mingyu; Liu, Xiongwei; Tong, Hao; Xu, Renxin

ApJ 854, 165 (2018)

1. The properties of the Galactic hot gaseous halo from X-ray emission

YL & Bregman, Joel N.

ApJ 849, 105 (2017)

AS CONTRIBUTING COAUTHOR

5. CLASS Angular Power Spectra and Map-Component Analysis for 40 GHz Observations through 2022 Eimer, Joseph R.; YL & CLASS Collaboration

Submitted to ApJ

4. Cosmology Large Angular Scale Surveyor (CLASS): 90 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance

Datta, Rahul; Brewer, Michael K.; Denes Couto, Jullianna; Eimer, Joseph R.; YL & CLASS Collaboration Submitted to ApJS

3. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: 40 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance

Xu, Zhilei; Brewer, Michael K.; Fluxá Rojas, Pedro; YL & CLASS Collaboration

ApJ 891, 134 (2020)

2. Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: A Measurement of Circular Polarization at 40 GHz

Padilla, Ivan L.; Eimer, Joseph R.; YL & CLASS Collaboration

ApJ 889, 105 (2020)

1. The optical/UV excess of X-ray-dim isolated neutron star II. nonuniformity of plasma on strangeon star surface Wang, Weiyang; Feng, Yi; Lai, Xiaoyu; YL; Lu, Jiguang; Chen, Xuelei; Xu, Renxin

RNN 18, 082 (2018)

REVIEW/ADVISORY CONTRIBUTION

7. Microwave Observations of Venus with CLASS

Dahal, Sumit & CLASS Collaboration

PSJ 4, 154 (2023)

6. Testing CMB Anomalies in E-mode Polarization with Current and Future Data

Shi, Rui & CLASS Collaboration

ApJ 945, 79 (2023)

5. Four-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: On-sky Receiver Performance at 40, 90, 150, and 220 GHz Frequency Bands

Dahal, Sumit & CLASS Collaboration
ApJ 926, 33 (2022)

4. Two Year Cosmology Large Angular Scale Surveyor (CLASS) Observations: Long Timescale Stability Achieved with a Front-end Variable-delay Polarization Modulator at 40 GHz

Harrington, Kathleen & ${\bf CLASS}$ Collaboration

ApJ 922, 212 (2021)

3. Calibration of Transition-edge Sensor (TES) Bolometer Arrays with Application to CLASS Appel, John W. & CLASS Collaboration
ApJS 262, 52 (2022)

2. The extended distribution of baryons around galaxies

Bregman, Joel N.; Anderson, Michael E.; Miller, Matthew J.; Hodges-Kluck, Edmund; Dai, Xinyu; Li, Jiang-tao; \mathbf{YL} ; Qu, Zhijie

ApJ 862, 003 (2018)

1. Merging strangeon stars

Lai, Xiaoyu; Yu, Yunwei; Zhou, Enping; \mathbf{YL} ; Xu, Renxin RNN 18, 024 (2018)