Mengyuan XIAO

(She/her/hers)

Postdoctoral Researcher

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University of Geneva
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Research Interests

- The first generation of massive galaxies in the early Universe.
- The dusty star-forming galaxies in the early Universe.
- Star-formation, interstellar medium properties, and kinematics in high-redshift galaxies.

Education

2023- **Postdoctoral fellow**, *Geneva observatory*, University of Geneva, Advisor: Prof. Pascal Oesch

2018-2022 **PhD Degree in Astrophysics**, *School of Astronomy & Space Science*, Nanjing University Advisors: Dr. David Elbaz and Prof. Qiu-Sheng Gu

2019-2022, *Joint PhD student*, CEA Saclay, France, Advisor: Dr. David Elbaz

Feb-May 2019, *Visiting student*, NAOJ, Japan, Host: Assoc. Prof. Daisuke Iono

2014-2018 **Master Degree in Astrophysics**, *School of Astronomy & Space Science*, Nanjing University, Advisor: Prof. Qiu-Sheng Gu

Aug-Oct 2017, *Visiting student*, NAOJ, Japan, Host: Assoc. Prof. Daisuke Iono

2009-2013 **Bachelor of Science**, *Science of Chinese Materia Medica*, School of Pharmacy, Nanjing University of Traditional Chinese Medicine

Honors and Awards

2024 Excellent Doctoral Thesis in the Jiangsu Province.

2024 Excellent Doctoral Thesis of Nanjing University.

2023 MERAC Awards by Swiss Society for Astrophysics and Astronomy (SSAA).

2022 Nanjing University Cao Erjie Scholarship.

2021 Nanjing University Excellent Postgraduate.

2019 2019-2021 China Scholarship Council (CSC) Scholarship.

2019 Provincial Excellent Master's Thesis.

2018 Nanjing University Yingcai Scholarship for Graduate Student.

2017 Excellent Postgraduate in the Jiangsu Province.

2016 Nanjing University Excellent Postgraduate.

2016 National Scholarship (the most prestigious scholarship in China).

2015 Nanjing University Excellent Postgraduate Cadre.

2015 President of Postgraduate Student Union in School of Astronomy & Space Science.

2013 Nanjing University of Traditional Chinese Medicine People's Scholarship.

2012 Nanjing University of Traditional Chinese Medicine People's Scholarship.

Teaching Experience and Student Supervision

2024 Teaching for *Galaxies and cosmology - an introduction* at the University of Geneva.

2024-present Supervision of semester thesis projects for Master student at the University of Geneva:

- *A. Okeanova: "Unveiling the fast formation of ultra massive galaxies (monsters) in the first Billion years"*
- *A. Sawarkar: "Spotlight on the most extreme and spectacular galaxy populations in the early Universe with JWST"*

2023-present Supervision of Master Thesis for *A. Ganguly: "Galaxy Morphology with the James Webb Space Telescope at Redshifts beyond 3"*

2017 Teaching assistant for *Extragalactic Astrophysics* at Nanjing University (professor: Dr. Qiusheng Gu).

2016 Teaching assistant for *Extragalactic Astrophysics* at Nanjing University (professor: Dr. Qiusheng Gu).

Community Activities and Outreach

2023-present *Referee* for Astronomy and Astrophysics

2024 *Co-Organizer* of colloquium, journal club talk, and academic visit at Geneva Observatory: Dr. Emanuele Daddi (CEA-Saclay, France), Dr. Boris Kalita (KIAA/IPMU, Japan), PhD candidate Yi Xu (Tokyo U., Japan), Master candidate Yuta Ishikawa (Waseda U., Japan)

2024 *Co-Organizer* of European Astronomical Society Annual Meeting; SS9: "Dust enrichment of early galaxies ($z > 5$) in the era of JWST and ALMA"

2023 *Outreach*, Introducing the JWST during the open days of the 250th Anniversary of the Geneva Observatory

2016 *LOC*, the Star Formation and SMBH accretion across the Universe, Nanjing, China

2015 *LOC*, the 2nd China MaNGA workshop, Nanjing, China

Computer Skills

- Skilled in Python and IDL.
- Experienced in data reduction for interferometric imaging and spectra.
- Experienced in the tool of image photometric reduction, decomposition, and SED fitting.
- Experienced in the tool of gas kinematics, galaxy blind detection, stellar population synthesis, and general spectral analysis.

Languages

- Chinese: *Native*
- English: *Advanced*
- French: *A1*

Conference & Seminar Contributions

- Invited Talk, Workshop 'Big Galaxies, Big Problems', Leiden, Netherlands, April, 2025
- Talk, Conference 'The 40th IAP Symposium: Unveiling the physics of early galaxy and black hole formation with JWST', Paris, France, Dec, 2024
- Talk, Conference 'Beyond the Edge of the Universe', Sintra, Portugal, Oct, 2024
- Talk, Conference 'Observing and Simulating Galaxy Evolution in the Era of JWST', Ascona, Switzerland, Aug, 2024
- Talk, EAS Symposium 'New light on Galaxies from Cosmic Dawn to Noon', Padova, Italy, July, 2024
- Talk, EAS Special Session 'Removing the Disguise: SMGs in the era of JWST', Padova, Italy, July, 2024
- Invited Talk, Conference 'Cosmic Odysseys 2024: The Interstellar Medium of Galaxies and AGN since Cosmic Dawm', Crete, Greece, July, 2024
- Talk, Conference 'Extreme galaxies in their extreme environments at extremely early epochs', Reykjavík, Iceland, April, 2024
- Invited Talk, Conference 'The Growth of Galaxies in the Early Universe –IX', Sesto, Italy, Jan, 2024
- Seminar Talk, Title 'A new era of studying extremely dust-obscured massive galaxies in the early Universe with JWST and ALMA', NAOJ, Japan, Nov, 2023
- Talk, Conference 'Resolving the Extragalactic Universe with ALMA & JWST', Tokyo, Japan, Nov, 2023
- CakeTalk,Title 'FRESCO: A new era of studying extremely dust-obscured massive galaxies in the early Universe with JWST spectroscopy', DAWN, Denmark, Aug, 2023
- Talk, Title 'Towards a Complete Picture of Galaxy Build-up at the First 3 Billion Years', Yunnan University, China, Jun, 2022
- Talk, Workshop 'Sino-French workshop on confronting simulations with observations of high-redshift galaxies and (proto)clusters', Online, Nov, 2021
- Talk, Workshop 'High-z dusty galaxies', Marseille, France, Oct, 2021
- Two Posters (Lightning Talks), European Astronomical Society Annual Meeting (EAS Leiden 2021), Online, Jun, 2021
- Talk, Conference 'Galaxy Cluster Formation II (GCF 2021)', Online, Jun, 2021
- Poster (Lightning Talk), Workshop on Protoclusters: Galaxies in Confinement, Online, Nov, 2020
- Invited Talk, Conference 'THE GROWTH OF GALAXIES IN THE EARLY UNIVERSE – VI', Sesto, Italy, Jan, 2020

- Seminar Talk, Title 'Starbursts with regular rotating disks in z=2.51 Cluster', NAOJ, Japan, May, 2019
- Lightning Talk, Galaxy Evolution Workshop 'The Co-Evolution of Galaxies and Their Central Regions', Dali, China, Oct, 2018
- Talk, 2018 Annual Meeting of Chinese Astronomical Society, Kunming, China, Oct, 2018
- Talk, 2017 Annual Meeting of Chinese Astronomical Society, Urumqi, China, Aug, 2017
- Poster, Asia-Pacific Regional IAU Meeting, Taipei, China/Taiwan, Jul, 2017
- Talk, The 19^{th} CAS Guoshoujing Symposium on Galaxies and Cosmology, Beijing, China, Jul, 2016
- Lightning talk, CLOUDY workshop, Shandong, China, Jun, 2016

Approved Proposals

2024 IRAM NOEMA Interferometer (ID: W24EP, Time awarded: 18.0 hrs) PI
Studying the efficient formation of three monsters in $z_{spec} \sim 6.7$ overdensity (PI: David Elbaz & **Mengyuan Xiao**)

2024 ALMA (ID: 2024.1.01744.S, Time awarded: 38.5 hrs) PI
ALMA+JWST: studying the efficient formation of massive galaxies at $z_{spec} = 3 - 5$ (PI: **Mengyuan Xiao**)

2023 JWST (ID: Cycle3 GO-5572, Time awarded: 16.8 hrs) PI
Red Monsters: Kinematics of Two 'Universe Breaking', Ultra- Massive Galaxies in the First Gyr (PI: **Mengyuan Xiao**)

2023 ALMA (ID: 2023.1.00837.S, Grade A, Time awarded: 1.0 hrs) PI
Hidden in plain sight: dynamical mass estimates for a newly-discovered red monster at $z_{spec} \sim 5.6$ in the GOODS-S field (PI: **Mengyuan Xiao**)

2023 IRAM NOEMA Interferometer (ID: S23CY, Grade A, Time awarded: 12.0 hrs) PI
Revealing the interstellar medium of two extremely massive galaxies at $z_{spec} > 7$ (PI: David Elbaz & **Mengyuan Xiao**)

2019 IRAM 30m (ID: 204-19, Time awarded: 19.45 hrs) PI
Probing Molecular Gas in Extremely Compact Starbursts as Major Merger Remnants (PI: **Mengyuan Xiao**)

2024 IRAM NOEMA Interferometer (ID: W24EA, Time awarded: 24.0 hrs) Co-I
Residual Cold Gas in A Descendant of High-z Ultra-Massive Galaxies (PI: Longji Bing)

2024 ALMA (ID: 2024.1.00638.S, Time awarded: 24.4 hrs) Co-I
Toward the Representative [CII] 158um Lines in the Reionization Era (PI: Yoshi Fudamoto)

2024 ALMA (ID: 2024.1.00106.S, Time awarded: 35.3 hrs) Co-I
A survey of cold molecular gas in $z \sim 6.5$ quasars and their companion galaxies (PI: Romain Meyer)

2023 JWST (ID: Cycle 3 GO-4762, Time awarded: 15.3 hrs) Co-I
Panchromatic characterizations of the super-Eddington accretion black hole, host, and environment: Epicenter of red dots, mergers, and dusty starbursts at z=7.2 (PI: Seiji Fujimoto)

2023 JWST (ID: Cycle 3 GO-5664, Time awarded: 44.8 hrs) Co-I
Dissecting Little Red Dots: the connection between early SMBH growth and cosmic reionization (PI: Jorryt Matthee)

2023 IRAM NOEMA Interferometer (ID: W23CX, GradeA, Time awarded: 13.5 hrs) Co-I
Exploring an ultra-massive and extremely efficient star forming galaxy at high redshift (PI: Guilaine Lagache)

2023 IRAM NOEMA Interferometer (ID: W23CJ, GradeA, Time awarded: 24.4 hrs) Co-I
COSMOS DSFGs Unveiled: A Comprehensive Identification (PI: Alexandre Beelen)

2023 VLA (ID: 23B-125, GradeA, Time awarded: 29.3 hrs) Co-I
A systematic CO(1-0) survey of z=2.5-4 protocluster cores (PI: Luwenjia Zhou)

2022 VLA (ID: 22B-243, GradeB, Time awarded: 13.15 hrs) Co-I
The true extent of the cold gas content in a red sequence progenitor (PI: Carlos Gómez-Guijarro)

2022 VLT KMOS (ID: 110.23UN, Time awarded: 12 hrs) Co-I
Instantaneous star formation rate to uncover the role of compact star formation in galaxy evolution (PI: Carlos Gómez-Guijarro)

2022 VLT KMOS (ID: 110.240K, Time awarded: 21.25 hrs) Co-I
Uncovering the role of optically dark galaxies in an overdensity at z = 3.5 (PI: Maximilien Franco)

2022 IRAM NOEMA Interferometer (ID: S22CN, Time awarded: 20.0 hrs) Co-I
Optically dark galaxies in the EGS field (PI: Maximilien Franco)

2022 IRAM NOEMA Interferometer (ID: S22DG, Time awarded: 24.0 hrs) Co-I
Unveiling the most massive galaxies at z $\sim$ 6 with NOEMA (PI: David Elbaz)

2021 IRAM NOEMA Interferometer (ID: M21AA, Time awarded: 159.0 hrs) Co-I
NOEMA formIng-Clusters Evolution survey (NICE): unveiling the physics of galaxies and structure assembly at $2 < z < 3.5$ (PI: Emanuele Daddi, Tao Wang)

2021 IRAM NOEMA Interferometer (ID: W21CV, Time awarded: 39.5 hrs) Co-I
A Complete Census on the Counterparts of DSFGs in GOODS-N (PI: Longji Bing)

2021 ALMA (ID: 2021.1.01650.S, Time awarded: 24.5 hrs) Co-I
Towards a systematic redshift determination of HST-dark galaxies (PI: Kotaro Kohno)

2021 ALMA (ID: 2021.1.00815.S, Time awarded: 39.8 hrs) Co-I
Testing structure formation, quenching and gas accretion models with a sample of 36 groups/clusters at $2 < z < 3.5$ (PI: Emanuele Daddi)

2021 JVLA (ID: VLA/21A-276, Time awarded: 25.20 hrs) Co-I
A deep CO(1-0) survey towards the most distant known galaxy cluster at z=2.51 (PI: Tao Wang)

2019 JVLA (ID: VLA/20A-334, Time awarded: 36.20 hrs) Co-I
A deep CO(1-0) survey towards the most distant known galaxy cluster at z=2.51 (PI: Tao Wang)

2019 IRAM NOEMA Interferometer (ID: W19BJ, Time awarded: 6 hrs) Co-I
CO observation of a star-forming S0 galaxy PGC 34107 (PI: Xue Ge)

2019 IRAM 30m (ID: 199-19, Time awarded: 15.2 hrs) Co-I
Molecular gas in low-mass star-forming S0 galaxies (PI: Xue Ge)

2018 JVLA (ID: VLA/19A-443, Time awarded: 49 hrs) Co-I
A deep and sharp view of CO(1-0) towards the most distant galaxy cluster at z = 2.51 with JVLA (PI: Tao Wang)

2018 IRAM NOEMA Interferometer (ID: P329857, Time awarded: 2.5 hrs) Co-I
The properties of star formation and post-starburst in a S0 galaxy (PI: Xue Ge)

On-site Observing Experience

2020 IRAM 30m telescope, on-site observing, 7 nights, Pico Veleta, Spain

2017 CAHA 3.5m telescope, on-site observing, 3 nights, Calar Alto, Spain

2014 2.16m telescope, on-site observing, 1 night, Xinglong, China

List of Publications and Present Work

9 primary author papers (6 first-author papers and 3 additional primary author publications), 280 citations (current as of 14-Jan-2025), h-index 7, ADS library
38 total papers, 1143 citations (current as of 14-Jan-2025), h-index 18, ADS library

Primary Author Papers

2024 *PANORAMIC: Discovery of an Ultra-Massive Grand-Design Spiral Galaxy at $z \sim 5.2$*

Xiao, M.-Y., Williams, C. C., Oesch, P. A., Elbaz, D., and the JWST PANORAMIC team, submitted to A&A; arXiv:2412.13264

2024 *Accelerated Formation of Ultra-Massive Galaxies in the First Billion Years*

Xiao, M.-Y., Oesch, P.A., Elbaz, D., L., Bing, and the JWST FRESCO team, Nature, 635, 311

2024 *Discovery of a new N-emitter in the epoch of reionization*

Schaerer, D., Marques-Chaves, R., **Xiao, M.-Y.**, et al. 2024, A&A, 687, L11

2023 *The hidden side of cosmic star formation at $z > 3$: Bridging optically-dark and Lyman break galaxies with GOODS-ALMA*

Xiao, M.-Y., Elbaz, D., Gómez-Guijarro, C., Leroy, and the GOODS-ALMA team, A&A, 672, A18

2022 *Starbursts with suppressed velocity dispersion revealed in a forming cluster at $z = 2.51$*

Xiao, M.-Y., Wang, T., Elbaz, D., Iono, D., et al. 2022, A&A, 664, A63

2022 *GOODS-ALMA 2.0: Starbursts in the main sequence reveal compact star formation regulating galaxy evolution prequenching*

Gómez-Guijarro, C., Elbaz, D., **Xiao, M.-Y.**, et al. 2022, A&A, 659, A196

2022 *GOODS-ALMA 2.0: Source catalog, number counts, and prevailing compact sizes in 1.1 mm galaxies*

Gómez-Guijarro, C., Elbaz, D., **Xiao, M.-Y.**, et al. 2022, A&A, 658, A43

2018 *The Physical Characteristics of Interstellar Medium in NGC3665 with Herschel Observation*

Xiao, M.-Y., Zhao, Y.-H., Gu, Q.-S., & Shi, Y. 2018, ApJ, 854, 111

2016 *The Nuclear Activities of Nearby S0 Galaxies*

Xiao, M.-Y., Gu, Q.-S., Chen, Y.-M., & Zhou, L. 2016, ApJ, 831, 63

Contributing Author Papers

2024 *Unveiling dust, molecular gas, and high star formation efficiency in extremely UV-bright star-forming galaxies at $z \sim 2.1 - 3.6$*

Dessauges-Zavadsky, M., Marques-Chaves, R., Schaerer, D., **Xiao, M.-Y.**, et al. 2024, A&A 693, A17

2024 *The PANORAMIC Survey: Pure Parallel Wide Area Legacy Imaging with JWST/NIRCam*

Williams, C. C., Oesch, P. A., Weibel, A., ..., **Xiao, M.-Y.** 2024, arXiv:2410.01875

2024 *JWST FRESCO: a comprehensive census of Hβ+[OIII] emitters at 6.8¡z¡9.0 in the GOODS fields*

Meyer, R. A., Oesch, P. A., Giovinazzo, E.,..., **Xiao, M.-Y.**, et al. 2024, MNRAS, 535, 1067

2024 *A new census of dust and polycyclic aromatic hydrocarbons at z = 0.7–2 with JWST MIRI*

Shivaei, I., Alberts, S., Florian, M.,..., **Xiao, M.-Y.**, et al. 2024, A&A, 690, A89

2024 *A first look at spatially resolved star formation at $4.8 < z < 6.5$ with JWST FRESCO NIRCam slitless spectroscopy*

Matharu, J., Nelson, E. J., Brammer, G.,..., **Xiao, M.-Y.** 2024, A&A, 690, A64

2024 *NOEMA formIng Cluster survEy (NICE): Characterizing eight massive galaxy groups at 1.5 ¡ z ¡ 4 in the COSMOS field*

Sillassen, N. B., Jin, S., Magdis, G. E., **Xiao, M.-Y.**, et al. 2024, A&A, 690, A55

2024 *An $H\alpha$ view of galaxy build-up in the first 2 Gyr: luminosity functions at $z \sim 4 - 6.5$ from NIRCam/grism spectroscopy*

Covelo-Paz, A., Giovinazzo, E., Oesch, P. A., **Xiao, M.-Y.** 2024, arXiv:2409.17241

2024 *Galaxy build-up in the first 1.5 Gyr of cosmic history: insights from the stellar mass function at z=4-9 from JWST NIRCam observations*

Weibel, A., Oesch, P. A., Barrufet, L.,..., **Xiao, M.-Y.** 2024, MNRAS, 533, 1808

2024 *FRESCO: The Paschen-α Star-forming Sequence at Cosmic Noon*

Neufeld, C., van Dokkum, P., Asali, Y., ... **Xiao, M.-Y.** 2024, ApJ, 972, 156

2024 *Measuring the gas reservoirs in 10^8 ¡ $M_\star$ ¡ 10^{11} $M_\odot$ galaxies at $1 \leq z \leq 3$*

Mérida, R. M., Gómez-Guijarro, C., Pérez-González, P. G.,..., **Xiao, M.-Y.** 2024, A&A, 686, A64

2024 *Unveiling the hidden Universe with JWST: the contribution of dust-obscured galaxies to the stellar mass function at z = 3 - 8*

Gottumukkala, R., Barrufet, L., Oesch, P. A.,..., **Xiao, M.-Y.** 2024, MNRAS, 530, 966

2024 *Noema formIng Cluster survEy (NICE): Discovery of a starbursting galaxy group with a radio-luminous core at z = 3.95*

Zhou, L., Wang, T., Daddi, E.,..., **Xiao, M.-Y.**, et al. 2024, A&A, 684, A196

2024 *Little Red Dots: An Abundant Population of Faint Active Galactic Nuclei at $z \sim 5$ Revealed by the EIGER and FRESCO JWST Surveys*

Matthee, J., Naidu, R. P., Brammer, G.,..., **Xiao, M.-Y.**, et al. 2024, ApJ, 963, 129

2024 *Faint mm NIKA2 dusty star-forming galaxies: Finding the high-redshift population*

Bing, L.-J., Beelen, A., Lagache, G.,..., **Xiao, M.-Y.**, et al. 2024, A&A, 683, A232

2023 *Ionized Gas Kinematics with FRESCO: An Extended, Massive, Rapidly Rotating Galaxy at z = 5.4*

Nelson, E. J., Brammer, G., Gimenez-Arteaga, C.,..., **Xiao, M.-Y.**, et al. 2023, APJL, 976, L27

2023 *The JWST FRESCO survey: legacy NIRCam/grism spectroscopy and imaging in the two GOODS fields*

Oesch, P. A., Brammer, G., Naidu, R. P.,..., **Xiao, M.-Y.** 2023, MNRAS, 525, 2864

2023 *The IR Compactness of Dusty Galaxies Sets Star Formation and Dust Properties at* $z \sim 0-2$

McKinney, J., Pope, A., Kirkpatrick, A.,..., **Xiao, M.-Y.** 2023, ApJ, 955, 136

2023 *Mapping dusty galaxy growth at* $z > 5$ *with FRESCO: Detection of* $H\alpha$ *in submm galaxy HDF850.1 and the surrounding overdense structures*

Herard-Demanche, T., Bouwens, R. J., Oesch, P. A.,..., **Xiao, M.-Y.**, et al. 2023, arXiv.2309.04525

2023 *JWST CEERS probes the role of stellar mass and morphology in obscuring galaxies*

Gómez-Guijarro, C., Magnelli, B., Elbaz, D.,..., **Xiao, M.-Y.**, et al. 2023, A&A, 677, A34

2023 *Accelerated Structural Evolution of Galaxies in a Starbursting Cluster at z = 2.51*

Xu, C., Wang, T., Gu, Q.,..., **Xiao, M.-Y.**, et al. 2023, ApJL, 951, L21

2023 *The gas mass reservoir of quiescent galaxies at cosmic noon*

Blánquez-Sesé, D., Gómez-Guijarro, C., Magdis, G. E.,..., **Xiao, M.-Y.**, et al. 2023, A&A, 674, A166

2023 *GOODS-ALMA 2.0: Last gigayear star formation histories of the so-called starbursts within the main sequence*

Ciesla, L., Gómez-Guijarro, C., Buat, V.,..., **Xiao, M.-Y.** 2023, A&A, 672, A191

2022 *Star-forming S0 galaxies in the SDSS-IV MaNGA survey*

Xu, K., Gu, Q., Lu, S., Ge, X., **Xiao, M.-Y.**, & Contini, E. 2022, MNRAS, 509, 1237

2021 *PGC 38025: A Star-forming Lenticular Galaxy With an Off-nuclear Star-forming Core*

Chen, Z.-Y., Gu, Q.-S., García-Benito, R., Zhang, Z.-Y., Ge, X., **Xiao, M.-Y.** , & Yu, X.-L 2021, APJ, 915, 1

2021 *Investigating the Nature of MGRO J1908+06 with Multiwavelength Observations*

Li, J., Liu, R.-Y., Ona Wilhelmi, E.,..., **Xiao, M.-Y.** 2021, APJL, 913, L33

2020 *GOODS-ALMA: The slow downfall of star formation in z = 2–3 massive galaxies*

Franco, M., Elbaz, D., Zhou, L., Magnelli, B., Schreiber, C., ... **Xiao, M.-Y.** 2020, A&A, 643, A30

2020 *GOODS-ALMA: Using IRAC and VLA to probe fainter millimeter galaxies*

Franco, M., Elbaz, D., Zhou, L., Magnelli, B., Schreiber, C., ... **Xiao, M.-Y.** 2020, A&A, 643, A53

2020 *The Physical Properties of S0 Galaxy PGC 26218: The Origin of Starburst and Star Formation*

Ge, X., Gu, Q.-S., García-Benito, R., **Xiao, M.-Y.**, & Li, Z.-N. 2020, ApJ, 889, 132

2018 *Revealing the Environmental Dependence of Molecular Gas Content in a Distant X-Ray Cluster at $z = 2.51$*

Wang, T., Elbaz, D., Daddi, E., Liu, D.-Z., ..., **Xiao, M.-Y.**, et al. 2018, ApJL, 867, L29