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Professional:

Researcher

Master Supervisor



Education:

2013-2018: Ph.D. degree in Astrophysics (Cum laude), Xinjiang Astronomical Observatory Chinese Academy of Sciences, China

2014-2016: Joint training in Nanjing University, China

2007-2010: Master's Degree in Astrophysics (Cum laude), Xinjiang Astronomical Observatory Chinese Academy of Sciences, China

2003-2007: Bachelor's Degree in Physics, Shandong Normal University, China

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Research Interests:

Molecular clouds and filamentary structures

High-mass star formation

Interactions between nearby galaxies

Molecular spectroscopy

Observations with interferometers and single-dish telescopes

Selected Publications:

1. Gang Wu, Christian Henkel, Ye Xu, Andreas Brunthaler, Karl M. Menten, Keping Qiu, Jingjing Li, Bo Zhang, Jarken Esimbek, ALMA and VLBA views on the outflow associated with an O-type protostar in G26.50+0.28, 2023, A&A, 677, 80
2. Gang Wu, David Martínez-Delgado, Christian Henkel, Pavel Kroupa, Fabian Walter, Nico Krieger, Alberto D. Bolatto, Timothy Robishaw, Joshua D. Simon, Álvaro Ibáñez Pérez, Karl M. Menten, Jarken Esimbek, H I mapping of the Leo Triplet: Morphologies and kinematics of tails and bridges, 2022, A&A, 658, 25
3. Dong-dong Zhou, Gang Wu*, Jarken Esimbek, Christian Henkel, Jian-jun Zhou, Da-lei Li, Wei-guang Ji, and Xing-wu Zheng, The study of the NH₃ (1,1) Hyperfine Intensity Anomaly in the Orion A Molecular Cloud, 2020, A&A, 640, 114

4. Gang Wu, Keping Qiu, Jarken Esimbek, Xingwu Zheng, Christian Henkel, Dalei Li, Xiaohong Han, Extended ammonia observations towards the ‘Integral-Shaped Filament’, 2018, A&A, 616, A111
5. Gang Wu, Jarken Esimbek, Willem Baan, Jianjun Zhou, Dongdong Zhou, Xiaohong Han, A kinematic study of the integral shaped filament: what roles do filaments play in forming young stellar clusters?, 2018, RAA, 18, 77
6. Gang Wu, Jarken Esimbek, JianJun Zhou, XiaoHong Han, 1_{10} - 1_{11} H_2CO and $\text{H}_{110\alpha}$ observations towards the giant HII region in cloud complex W43, 2011, RAA, 11, 63
7. Dilda Berdikhan, Jarken Esimbek, Christian Henkel, Jianjun Zhou, Xindi Tang, Tie Liu, Gang Wu, Dalei Li, Yuxin He, Toktarkhan Komeshe, Kadirya Tursun, Dongdong Zhou, Ernar Imanaly, and Qaynar Jandaolet, Ammonia observations of Planck cold cores, 2024, A&A, 684, A144
8. Na Wang, Qian Xu, Jun Ma, Zhiyong Liu, Qi Liu, Hailong Zhang, Xin Pei, Maozheng Chen, Richard N. Manchester, Kejia Lee, Xingwu Zheng, Hans J. Kärcher, Wulin Zhao, Hongwei Li, Dongwei Li, Martin Süss, Matthias Reichert, Zhongyi Zhu, Congsi Wang, Mingshuai Li, Rui Li, Ning Li, Guljaina Kazezkhan, Wenming Yan, Gang Wu, Lang Cui, Ming Zhang, Haitao Li, The Qitai Radio Telescope, 2023, Science China Physics, Mechanics, and Astronomy, 66, 289512
9. Yingxiu Ma, Jianjun Zhou, Jarken Esimbek, Willem Baan, Dalei Li, Xindi Tang, Yuxin He, Weiguang Ji, Dongdong Zhou, Gang Wu, Kadirya Tursun, Toktarkhan Komeshe, Gravitational collapse and accretion flows in the hub filament system G323.46-0.08, 2023, A&A 676, A15
10. Dong-Dong Zhou, Jian-Jun Zhou, Gang Wu, Jarken Esimbek, and Ye Xu, The Environment and Star Formation around the Infrared Bubble N 13, 2023, RAA, 23, 5011
11. Yingxiu Ma, Jianjun Zhou, Jarken Esimbek, Willem Baan, Dalei Li, Yuxin He, Xindi Tang, Weiguang Ji, Dongdong Zhou, Gang Wu, Ye Xu, Cloud-cloud collision and star formation in G323.18+0.15, 2022, A&A, 663, A97
12. K. Tursun, C. Henkel, J. Esimbek, X. D. Tang, T. L. Wilson, A. Malawi, E. Alkhuja, F. Wyrowski, R. Mauersberger, K. Immer, H. Asiri, J. J. Zhou, G. Wu, Observations of multiple NH_3 transitions in W33, 2022, A&A, 658, A34
13. Zhengxue Chang, Jianjun Zhou, Isabella Lamperti, Amélie Saintongel, Jarken Esimbek, Dalei Li, Yuxin He, Jianjie Qiu, Jun Li, Zeming Zhou, Xindi Tang, Gang Wu, Weiguang Ji, Mengke Zhao, and Minhua Zhou, Investigating Cold Dust Properties of 12 Nearby Dwarf Irregular Galaxies by Hierarchical Bayesian Spectral Energy Distribution Fitting, 2021, ApJ, 915, 51
14. Yu-Xin He, Christian Henkel, Jian-Jun Zhou, Jarken Esimbek, Amelia M. Stutz, Hong-Li Liu, Wei-Guang Ji, Da-Lei Li, Gang Wu, Xin-Di Tang, Toktarkhan Komeshe, Serikbek Sailanbek, Extended HNCO , SiO , and HC_3N Emission in 43 Southern Star-forming Regions, 2021, ApJS, 253, 2
15. Y. Xu, S. B. Bian, M. J. Reid, J. J. Li, K. M. Menten, T. M. Dame, B. Zhang, A. Brunthaler, Y. W. Wu, L. Moscadelli, G. Wu, X. W. Zheng, Trigonometric

- Parallaxes of Four Star-forming Regions in the Distant Inner Galaxy, 2021, ApJS, 253, 1
16. Toktarkhan Komesch, Willem Baan, Jarken Esimbek, Jianjun Zhou, Dalei Li, Gang Wu, Yuxin He, Zulfazli Rosli, Margulan Ibraimov, Studies of the distinct regions due to CO selective dissociation in the Aquila molecular cloud, 2020, A&A, 644, A46
 17. Kadirya Tursun, Jarken Esimbek, Christian Henkel, Xindi Tang, Gang Wu, Dalei Li, Jianjun Zhou, Yuxin He, Toktarkhan Komesch, Serikbek Sailanbek, Ammonia observations towards the Aquila Rift cloud complex, 2020, A&A, 643, A178
 18. Dalei Li, Xindi Tang, Christian Henkel, Karl M. Menten, Friedrich Wyrowski, Yan Gong, Gang Wu, Yuxin He, Jarken Esimbek, Jianjun Zhou, Evidence for dense gas heated by the explosion in Orion KL, 2020, ApJ, 901, 62
 19. Zhengxue Chang, Jianjun Zhou, Christine D. Wilson, Jarken Esimbek, Jianjie Qiu, Dalei Li, Minhua Zhou, Yuxin He, Weiguang Ji, Xindi Tang, Gang Wu, and Jun Li, Dissecting the Global Cold Dust Properties and Possible Submillimeter Excess of 13 Nearby Spiral Galaxies from the NGLS, 2020, ApJ, 900, 53
 20. Qiang Li, Jian-jun, Zhou, Jarken Esimbek, Yu-xin, He, Willem Baan, Da-lei Li, Gang Wu, Xin-di Tang, Wei-guang Ji, Toktarkhan Komesch and Serikbek Sailanbek, Effects of infall and outflow on massive star-forming regions, 2019, MNRAS, 488, 4638
 21. Xu Li, Jarken Esimbek, Jian-jun Zhou, Willem Baan, Wei-guang Ji, Xin-di Tang, Gang Wu, Xiao-ke Tang, Qiang Li, Ying-xiu Ma, Serikbek Sailanbek, Da-lei Li, and Dina Alimbetova, Molecular environs and triggered star formation around the large Galactic infrared bubble N24, 2019, MNRAS, 487, 1517
 22. Qiang Li, Jian-jun Zhou, Jarken Esimbek, Yu-xin He, Willem, Baan, Da-lei, Li, Gang Wu, Xin-di Tang, Wei-guang, Ji, High-mass outflows identified from COHRS CO (3 - 2) Survey, 2018, ApJ, 867, 167
 23. Yu-Xin He, Jian-jun Zhou, Jarken Esimbek, Wei-guang Ji, Gang Wu, Xin-di Tang, Ye Yuan, Da-lei Li, Willem Baan, Properties of massive star-forming clumps with infall motions, 2016, MNRAS, 461, 2288
 24. Hong-wei Xi, Jian-jun Zhou, Jarken Esimbek, Gang Wu, Yu-xin He, Wei-guang Ji, Xiao-ke Tang, 22 GHz H₂O maser survey towards 221 BGPS sources, 2015, MNRAS, 453, 4203
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