Chuan-Peng Zhang (张传朋)

National Astronomical Observatories, CAS

20A Datun Road, Chaoyang District Tel: +86 15910438911
Beijing 100012, China Email: cpzhang@nao.cas.cn



EDUCATION & WORK:

Staff

National Astronomical Observatories, CAS, Beijing, China July 2015 – Now

Ph.D. Programe

Max-Planck-Institut für Radioastronomie, Bonn, Germany Sep. 2013 – Aug. 2015 Supervisor: Prof. Dr. Friedrich Wyrowski, & Prof. Dr. Karl M. Menten

Ph.D. Programe

National Astronomical Observatories, CAS, Beijing, China July 2011 – June 2015 Supervisor: Prof. Dr. Jun-Jie Wang

Master of Science in Astrophysics

Xinjiang Astronomical Observatory, CAS, Xinjiang, China Aug. 2008 – June 2011 Supervisor: Prof. Dr. Jarken Esimbek

RESEARCH INTEREST:

Giant Molecular Cloud, Infrared Dust Bubble and Dark Cloud,
Hypercompact HII Region, Fragmentation and Deuteration in High-mass Star Formation

Pre-PUBLICATIONS:

- [1] **Zhang, C. P.**, Yuan, J. H., Li, G. X., Zhou, J. J., et al. 2016, A&A, submitted <A multi-wavelength observation and investigation towards six infrared dark clouds>
- [2] **Zhang, C. P.** 2016, RAA, submitted <Searching for initial stage of massive star formation around HII region G18.2-0.3>
- [3] **Zhang, C. P. &** Li, G. X. 2016, MNRAS, submitted <Mass-size scaling M ~ r^{1.67} of massive star-forming clumps – evidences of turbulence-regulated gravitational collapse>
- [4] **Zhang, C. P.**, Liu, T., Yuan, J. H., Wu, Y., et al. 2016, prep. <TOP-SCOPE project in Quadrant II of the Milky Way>
- [5] **Zhang, C. P.**, Csengeri, T., Wyrowski, F., Pillai, T., et al. 2016, A&A, prep. Unveiling the initial conditions of high-mass star formation I. Fragmentation and evolution>
- [6] **Zhang, C. P.**, Wyrowski, F., Pillai, T., Csengeri, T., et al. 2016, A&A, prep. <unveiling the initial conditions of high-mass star formation II. Dynamics, stability, and chemistry>

PUBLICATIONS:

[1] **Zhang, C. P.**, Li, G.-X., Wyrowski, F., Wang, J.-J., Yuan, J.-H., Xu, J.-L., Gong, Y., Yeh, C., & Menten, K. M. 2016, A&A, 585, A117 < N131: A dust bubble born from the disruption of a gas filament>

- [2] **Zhang, C. P.**, Wang, J. J., Xu, J. L., Wyrowski, F., & Menten, K. M. 2014, ApJ, 784, 107 Submillimeter Array and Very Large Array Observations in the Hypercompact H II Region G35.58-0.03>
- [3] Xu, J. L., Wang, J. J., Ning, C. C., & **Zhang, C. P.** 2014, RAA, 14, 47 < Multi-wavelength study of triggered star formation around 25 H II regions>
- [4] **Zhang, C. P.**, Wang, J. J., & Xu, J. L. 2013, A&A, 550, A117 <Molecular Clumps and Star Formation associated with the infrared dust bubble N131>
- [5] **Zhang, C. P.**, & Wang, J. J. 2013, RAA, 13, 47 <Star formation associated with the infrared dust bubble N68>
- [6] **Zhang, C. P.**, & Wang, J. J. 2012, A&A, 522, A11 <The multiwavelength study of the infrared dust bubble S51>
- [7] **Zhang, C. P.**, Esimbek, J., Zhou, J. J., Wu, G., & Du, Z. M. 2012, Ap&SS, 337, 283 <Exploring morphological correlations among H₂CO, ¹²CO, MSX, and continuum mappings>
- [8] Du, Z. M., Zhou, J. J., Esimbek, J., Han, X. H., & **Zhang, C. P.** 2011, A&A, 532, A127 < A H₂CO and H110α survey of H II regions with the 25-m radio telescope of Nanshan Station>

POSTERS & ORALS:

- [1] **Zhang, C. P.**, et al. 2015, MPIfR, talk <The origin of the infrared dust bubble N131>
- [2] **Zhang, C. P.**, & Wang, J. J. 2013, IAUS, 292, 65, poster S51, N68, and N131>
- [3] **Zhang, C. P.**, Esimbek, J., Zhou, J. J., Wu, G., & Du, Z. M. 2009, Chinese Astronomical Annual Meeting, talk
 - <H₂CO and H110α observations toward giant molecular clouds>
- [4] **Zhang, C. P.**, Esimbek, J., Zhou, J. J., Wu, G., & Du, Z. M. 2010, Chinese Astronomical Annual Meeting, talk
 - <Large Area Mappings of Formaldehyde at 6-cm toward Giant Molecular Clouds>

OBSERVATIONAL PROJECTS & EXPERIENCE:

- [1] PI: **Zhang, C. P.**, JCMT 15m, #M16AP009, 75.0h <The depletion of different species in dark and dense clumps>
- [2] PI: **Zhang, C. P.**, JCMT 15m, #M16BP024, 75.0h <The depletion of different species in dark and dense clumps>
- [3] PI : **Zhang, C. P.**, Effelsberg 100m, #7-15, 26.7h < Probing a hierarchical temperature structure of the bubble N131>
- [4] PI: **Zhang, C. P.**, JCMT 15m, #M15BI021, 16.0h <H₂D⁺ in Massive Infrared Quiet Cores>
- [5] PI: **Zhang, C. P.**, JCMT 15m, #M15AI79, 3.0h <N131: A dust bubble born from the disruption of a filament?>
- [6] PI : **Zhang, C. P.**, JCMT 15m, #M15AI69, 24.0h <H₂D⁺ in Massive Infrared Quiet Cores>
- [7] PI : **Zhang, C. P.**, TAP-CSO 10.4m, 2015, 2 full nights <H₂D⁺ in massive infrared quiet cores>
- [8] Astronomer On Duty (AoD) of Effelsberg 100m, June 2014 in Effelsberg Germany <IDV observations>
- [9] PI: **Zhang, C. P.**, IRAM 30m, #167-13, 25.5h

<Molecular clumps triggered by the infrared dust bubble N131>

[10]PI: **Zhang, C. P.**, Delingha 13.7m #12A007, 15h

<Multiwavelength observations of infrared dust bubbles>

[11]PI and AoD of Urumqi 25m, Sep. 2009 - June 2011 in Xinjiang China

<A H₂CO and H110α survey of H II regions with the 25m radio telescope>

AWARDS:

- [1] Excellent Student (≤ 15%) in 2012-2013, University of Chinese Academy of Sciences
- [2] Excellent Student (≤1%) in 2013-2014, University of Chinese Academy of Sciences
- [3] National Scholarship for Graduate Students ($\leq 1\%$) in 2013-2014, in China
- [4] Outstanding Graduate (≤ 1%) in University of Chinese Academy of Sciences
- [5] Excellent Doctoral Dissertation ($\leq 1\%$) in University of Chinese Academy of Sciences

...

SKILLS & ABILITIES:

- [1] Language: Chinese, English
- [2] Data reduction: GILDAS (single dish and interferometer), MIRIAD, AIPS, STARLINK, and Python
- [3] Sport: Table Tennis, Basketball, Volleyball, and Running

Last update: 11-21-2016