

## Ying Zu

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## Education

### The Ohio State University, Columbus, Ohio

*Ph.D. in Astrophysics*

Advisor: David H. Weinberg

*2008 -- present*

### Shanghai Astronomical Observatory, China

*Graduate Research Associate*

*2006 -- 2007*

### Nanjing University, China

*B.S. in Astronomy*

*2001 -- 2005*

## Research Interests

Theoretical astrophysics and cosmology with close tie to observations:

cluster cosmology, weak lensing, cluster galaxy kinematics

quasar variability, measuring masses of supermassive blackholes, galaxy formation

## Awards and Honors

Distinguished University Fellowship (OSU)

*2008/2009, 2011/2012*

National Fellowship of China (Ministry of Education, China)

*2003, 2004, 2005*

People's Scholarship for Excellence in Undergraduate Study (NJU)

*2004*

Yung Yau Scholarship Award

*2003*

Murota International Scholarship

*2002*

Outstanding Freshman Award (NJU)

*2001*

## Invited Talks

Berkeley Cosmology Group Seminar, UC Berkeley

*Oct. 19 2012*

Chinese Academy of Sciences Colloquium, SHAO

*Aug. 30 2010*

## References

*Prof.* David H. Weinberg

*Prof.* Christopher S. Kochanek

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## Publications

- Zu, Y. and Weinberg, D. H. (2012). The redshift-space cluster-galaxy cross-correlation function: I. modeling galaxy infall onto millennium simulation clusters and SDSS groups. *arXiv:1211.1379*, MNRAS *submitted*. 
9. **Zu, Y.**, Weinberg, D. H., Rozo, E., Sheldon, E. S., Tinker, J. L., and Becker, M. R. (2012b). Cosmological constraints from the large scale weak lensing of SDSS MaxBCG clusters. *arXiv:1207.3794*, MNRAS *submitted*. 
8. **Zu, Y.**, Kochanek, C. S., Kozłowski, S., and Udalski, A. (2012a). Is quasar variability a damped random walk? *arXiv:1202.3783*, ApJ *submitted*. 
7. **Zu, Y.**, Weinberg, D. H., Davé, R., Fardal, M., Katz, N., Kereš, D., and Oppenheimer, B. D. (2011b). Intergalactic dust extinction in hydrodynamic cosmological simulations. *Monthly Notices of the Royal Astronomical Society*, 412:1059–1069.
6. **Zu, Y.**, Kochanek, C. S., and Peterson, B. M. (2011a). An alternative approach to measuring reverberation lags in active galactic nuclei. *The Astrophysical Journal*, 735:80.
5. **Zu, Y.**, Zheng, Z., Zhu, G., and Jing, Y. P. (2008). Environmental effects on real-space and redshift-space galaxy clustering. *The Astrophysical Journal*, 686:41–52.
4. Tinker, J. L., Sheldon, E. S., Wechsler, R. H., Becker, M. R., Rozo, E., **Zu, Y.**, Weinberg, D. H., Zehavi, I., Blanton, M. R., Buscha, M. T., and Koester, B. P. (2012). Cosmological constraints from galaxy clustering and the mass-to-number ratio of galaxy clusters. *The Astrophysical Journal*, 745:16.
3. Grier, C. J., Peterson, B. M., Horne, K., Bentz, M. C., Pogge, R. W., Denney, K. D., De Rosa, G., Martini, P., Kochanek, C. S., **Zu, Y.**, Shappee, B., Siverd, R., Beatty, T. G., Sergeev, S. G., Kaspi, S., Araya Salvo, C., Bird, J. C., Bord, D. J., Borman, G. A., Che, X., Chen, C., Cohen, S. A., Dietrich, M., Doroshenko, V. T., Efimov, Y. S., Free, N., Ginsburg, I., Henderson, C. B., King, A. L., Mogren, K., Molina, M., Mosquera, A. M., Nazarov, S. V., Okhmat, D. N., Pejcha, O., Rafter, S., Shields, J. C., Skowron, J., Szczygiel, D. M., Valluri, M., and van Saders, J. L. (2012a). The structure of the broad line region in AGN: i. reconstructed velocity-delay maps. *arXiv:1210.2397*, ApJ *submitted*
2. Grier, C. J., Peterson, B. M., Pogge, R. W., Denney, K. D., Bentz, M. C., Martini, P., Sergeev, S. G., Kaspi, S., Minezaki, T., **Zu, Y.**, Kochanek, C. S., Siverd, R., Shappee, B., Stanek, K. Z., Araya Salvo, C., Beatty, T. G., Bird, J. C., Bord, D. J., Borman, G. A., Che, X., Chen, C., Cohen, S. A., Dietrich, M., Doroshenko, V. T., Drake, T., Efimov, Y. S., Free, N., Ginsburg, I., Henderson, C. B., King, A. L., Koshida, S., Mogren, K., Molina, M., Mosquera, A. M., Nazarov, S. V., Okhmat, D. N., Pejcha, O., Rafter, S., Shields, J. C., Skowron, J., Szczygiel, D. M., Valluri, M., and van Saders, J. L. (2012b). Reverberation mapping results for five seyfert 1 galaxies. *The Astrophysical Journal*, 755:60.
1. Grier, C. J., Peterson, B. M., Pogge, R. W., Denney, K. D., Bentz, M. C., Martini, P., Sergeev, S. G., Kaspi, S., **Zu, Y.**, Kochanek, C. S., Shappee, B. J., Stanek, K. Z., Araya Salvo, C., Beatty, T. G., Bird, J. C., Bord, D. J., Borman, G. A., Che, X., Chen, C., Cohen, S. A., Dietrich, M., Doroshenko, V. T., Efimov, Y. S., Free, N., Ginsburg, I., Henderson, C. B., Horne, K., King, A. L., Mogren, K., Molina, M., Mosquera, A. M., Nazarov, S. V., Okhmat, D. N., Pejcha, O., Rafter, S., Shields, J. C., Skowron, J., Szczygiel, D. M., Valluri, M., and van Saders, J. L. (2012c). A reverberation lag for the high-ionization component of the broad-line region in the narrow-line seyfert 1 mrk 335. *The Astrophysical Journal Letters*, 744:L4.