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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

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10. **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.