

List of Publications

Hao-Yi (Heidi) Wu

[Astrophysics Data System Link](#)

- [21] O. Hahn, D. Martizzi, **H.-Y. Wu**, A. E. Evrard, R. Teyssier, and R. H. Wechsler. [Rhapsody-G simulations - I. The cool cores, hot gas and stellar content of massive galaxy clusters](#). *Monthly Notices of the Royal Astronomical Society*, 470:166–186, August 2017.
- [20] **H.-Y. Wu** and D. Huterer. [Sample variance in the local measurements of the Hubble constant](#). *arXiv:1706.09723*, June 2017.
- [19] **H.-Y. Wu** and O. Doré. [Optimizing future experiments of cosmic far-infrared background: a principal component approach](#). *Monthly Notices of the Royal Astronomical Society*, 467:4150–4160, June 2017.
- [18] **H.-Y. Wu** and O. Doré. [A minimal empirical model for the cosmic far-infrared background anisotropies](#). *Monthly Notices of the Royal Astronomical Society*, 466:4651–4658, April 2017.
- [17] M. Bethermin, **H.-Y. Wu**, G. Lagache, I. Davidzon, N. Ponthieu, M. Cousin, L. Wang, O. Dore, E. Daddi, and A. Lapi. [The impact of clustering and angular resolution on far-infrared and millimeter continuum observations](#). *arXiv:1703.08795*, March 2017.
- [16] **H.-Y. Wu**, O. Doré, and R. Teyssier. [Interpreting the cosmic far-infrared background anisotropies using a gas regulator model](#). *arXiv:1607.02546*, July 2016.
- [15] D. Martizzi, O. Hahn, **H.-Y. Wu**, A. E. Evrard, R. Teyssier, and R. H. Wechsler. [RHAPSODY-G simulations - II. Baryonic growth and metal enrichment in massive galaxy clusters](#). *Monthly Notices of the Royal Astronomical Society*, 459:4408–4427, July 2016.
- [14] **H.-Y. Wu**, A. E. Evrard, O. Hahn, D. Martizzi, R. Teyssier, and R. H. Wechsler. [RHAPSODY-G simulations: galaxy clusters as baryonic closed boxes and the covariance between hot gas and galaxies](#). *Monthly Notices of the Royal Astronomical Society*, 452:1982–1991, September 2015.
- [13] D. Huterer, D. Kirkby, R. Bean, A. Connolly, K. Dawson, S. Dodelson, A. Evrard, B. Jain, M. Jarvis, E. Linder, R. Mandelbaum, M. May, A. Raccanelli, B. Reid, E. Rozo, F. Schmidt, N. Sehgal, A. Slosar, A. van Engelen, **H.-Y. Wu**, and G. Zhao. [Growth of cosmic structure: Probing dark energy beyond expansion](#). *Astroparticle Physics*, 63:23–41, March 2015.
- [12] **H.-Y. Wu**, O. Hahn, A. E. Evrard, R. H. Wechsler, and K. Dolag. [Virial scaling of galaxies in clusters: bright to faint is cool to hot](#). *Monthly Notices of the Royal Astronomical Society*, 436:460–469, November 2013.

- [11] **H.-Y. Wu** and D. Huterer. [The impact of systematic uncertainties in N-body simulations on the precision cosmology from galaxy clustering: a halo model approach.](#) *Monthly Notices of the Royal Astronomical Society*, 434:2556–2571, September 2013.
- [10] **H.-Y. Wu**, O. Hahn, R. H. Wechsler, P. S. Behroozi, and Y.-Y. Mao. [Rhapsody. II. Subhalo Properties and the Impact of Tidal Stripping From a Statistical Sample of Cluster-size Halos.](#) *Astrophysical Journal*, 767:23, April 2013.
- [9] Y.-Y. Mao, L. E. Strigari, R. H. Wechsler, **H.-Y. Wu**, and O. Hahn. [Halo-to-halo Similarity and Scatter in the Velocity Distribution of Dark Matter.](#) *Astrophysical Journal*, 764:35, February 2013.
- [8] **H.-Y. Wu**, O. Hahn, R. H. Wechsler, Y.-Y. Mao, and P. S. Behroozi. [Rhapsody. I. Structural Properties and Formation History from a Statistical Sample of Re-simulated Cluster-size Halos.](#) *Astrophysical Journal*, 763:70, February 2013.
- [7] P. S. Behroozi, R. H. Wechsler, **H.-Y. Wu**, M. T. Busha, A. A. Klypin, and J. R. Primack. [Gravitationally Consistent Halo Catalogs and Merger Trees for Precision Cosmology.](#) *Astrophysical Journal*, 763:18, January 2013.
- [6] P. S. Behroozi, R. H. Wechsler, and **H.-Y. Wu**. [The ROCKSTAR Phase-space Temporal Halo Finder and the Velocity Offsets of Cluster Cores.](#) *Astrophysical Journal*, 762:109, January 2013.
- [5] E. Rozo, E. Rykoff, B. Koester, B. Nord, **H.-Y. Wu**, A. Evrard, and R. Wechsler. [Extrinsic Sources of Scatter in the Richness-mass Relation of Galaxy Clusters.](#) *Astrophysical Journal*, 740:53, October 2011.
- [4] E. Rozo, **H.-Y. Wu**, and F. Schmidt. [Stacked Weak Lensing Mass Calibration: Estimators, Systematics, and Impact on Cosmological Parameter Constraints.](#) *Astrophysical Journal*, 735:118, July 2011.
- [3] **H.-Y. Wu**, A. R. Zentner, and R. H. Wechsler. [The Impact of Theoretical Uncertainties in the Halo Mass Function and Halo Bias on Precision Cosmology.](#) *Astrophysical Journal*, 713:856–864, April 2010.
- [2] **H.-Y. Wu**, E. Rozo, and R. H. Wechsler. [Annealing a Follow-up Program: Improvement of the Dark Energy Figure of Merit for Optical Galaxy Cluster Surveys.](#) *Astrophysical Journal*, 713:1207–1218, April 2010.
- [1] **H.-Y. Wu**, E. Rozo, and R. H. Wechsler. [The Effects of Halo Assembly Bias on Self-Calibration in Galaxy Cluster Surveys.](#) *Astrophysical Journal*, 688:729–741, December 2008.