

PUBLICATIONS

1. **Huang, S.**, Neal Katz, Evan Scannapieco, J'Neil Cottle, Romeel Davé, David H Weinberg, Molly S Peeples, and Marcus Brüggen. A new model for including galactic winds in simulations of galaxy formation – I. Introducing the Physically Evolved Winds (PhEW) model. *MNRAS*, 497(3):2586–2604, 07 2020
2. **Huang, S.**, Neal Katz, Romeel Davé, Benjamin D. Oppenheimer, David H. Weinberg, Mark Fardal, Juna A. Kollmeier, and Molly S. Peeples. The impact of wind scalings on stellar growth and the baryon cycle in cosmological simulations. *MNRAS*, 493(1):1–28, March 2020
3. **Huang, S.**, N. Katz, R. Davé, M. Fardal, J. Kollmeier, B. D. Oppenheimer, M. S. Peeples, S. Roberts, D. H. Weinberg, P. F. Hopkins, and R. Thompson. The Robustness of Cosmological Hydrodynamic Simulation Predictions to Changes in Numerics and Cooling Physics. *ArXiv e-prints, submitted to MNRAS*, October 2018
4. H. Wang, H. J. Mo, S. Chen, Y. Yang, X. Yang, E. Wang, F. C. van den Bosch, Y. Jing, X. Kang, W. Lin, S. H. Lim, **Huang, S.**, Y. Lu, S. Li, W. Cui, Y. Zhang, D. Tweed, C. Wei, G. Li, and F. Shi. ELUCID. IV. Galaxy Quenching and its Relation to Halo Mass, Environment, and Assembly Bias. *ApJ*, 852:31, January 2018
5. J. Arthur, F. R. Pearce, M. E. Gray, P. J. Elahi, A. Knebe, A. M. Beck, W. Cui, D. Cunnama, R. Davé, S. February, **Huang, S.**, N. Katz, S. T. Kay, I. G. McCarthy, G. Murante, V. Perret, C. Power, E. Puchwein, A. Saro, F. Sembolini, R. Teyssier, and G. Yepes. nIFTy galaxy cluster simulations - V. Investigation of the cluster infall region. *MNRAS*, 464:2027–2038, January 2017
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7. S. Zhang, D. Wang, A. Foster, L. Ji, Z. Li, W. Sun, and **Huang, S.** X-ray Spectroscopy of the Andromeda Galaxy's Nuclear Feedback. In *AAS/High Energy Astrophysics Division #16*, volume 16 of *AAS/High Energy Astrophysics Division*, page 107.16, August 2017
8. K. Finlator, B. D. Oppenheimer, R. Davé, E. Zackrisson, R. Thompson, and **Huang, S.** The soft, fluctuating UVB at $z \sim 6$ as traced by C IV, Si IV, and C II. *MNRAS*, 459:2299–2310, July 2016
9. W. Cui, C. Power, A. Knebe, S. T. Kay, F. Sembolini, P. J. Elahi, G. Yepes, F. Pearce, D. Cunnama, A. M. Beck, C. Dalla Vecchia, R. Davé, S. February, **Huang, S.**, A. Hobbs, N. Katz, I. G. McCarthy, G. Murante, V. Perret, E. Puchwein, J. I. Read, A. Saro, R. Teyssier, and R. J. Thacker. nIFTy galaxy cluster simulations - IV. Quantifying the influence of baryons on halo properties. *MNRAS*, 458:4052–4073, June 2016
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