

1 Publication Record:

Articles where applicant's PhD supervisor is not a co-author indicated by \star

Articles where applicant's student was lead author and applicant was second author indicated by \dagger

Submitted Journal Articles:

1. \dagger “*Nonlinear evolution of cosmological structures in warm dark matter models*”
A. Schneider, **R. E. Smith**, A. Maccio, B. Moore. Submitted to ApJ (2011). (arXiv:1112.0330)
2. \star “*Cluster density profiles as a test of modified gravity*”
L. Lombriser, F. Schmidt, T. Baldauf, R. Mandelbaum, U. Seljak, **R. E. Smith**. Submitted to PRD (2011). (arXiv:1111.2020)
3. \star “*Optimized detection of shear peaks in weak lensing maps*”
L. Marian, **R. E. Smith**, S. Hilbert, P. Schneider. Submitted to MNRAS (2011). (arXiv:1110.4635)

Published Journal Articles:

1. \dagger “*Modelling large-scale halo bias using the bispectrum*”
J. Pollack, **R. E. Smith**, C. Porciani. Accepted for publication in MNRAS (2011) (arXiv:1109.3458)
2. \star “*What do cluster counts really tell us about the Universe?*”
R. E. Smith, L. Marian, MNRAS, **418**, 729 (2011) (arXiv:1106.1665) [cites 0]
3. \star “*Testing the Warm Dark Matter paradigm with large-scale structures*”
R. E. Smith, K. Markovic, PRD, **84**, 063507 (2011) (arXiv:1103.2134) [cites 6]
4. \star “*Measuring Primordial Non-Gaussianity Through Weak-lensing Peak Counts*”
L. Marian; S. Hilbert, **R. E. Smith**, P. Schneider, V. Desjacques, ApJL, **728**, 13 (2011) (arXiv:1010.5242) [cites 5]
5. \star “*Nonlinear clustering in models with primordial non-Gaussianity*”
R. E. Smith, V. Desjacques, L. Marian, PRD, **83**, 3526 (2011) (arXiv:1009.5085) [cites 13]
6. \star “*Minimizing the Stochasticity of Halos in Large-Scale Structure Surveys*”
N. Hamaus, U. Seljak, V. Desjacques, **R. E. Smith**, T. Baldauf, PRD, **82**, 3515 (2010) (arXiv:1004.5377) [cites 12]
7. \star “*Test of gravity at cosmological scales using weak gravitational lensing and velocity flows*”
R. Reyes, R. Mandelbaum, U. Seljak, T. Baldauf, J. E. Gunn, L. Lombriser, **R. E. Smith**, Nature, **464**, 256 (2010) (arXiv:1003.2185) [cites 50]
8. \star “*The impact of correlated projections on weak lensing cluster counts*”
L. Marian, **R. E. Smith**, G. M. Bernstein, ApJ, **709**, 286 (2010) (arXiv:0912.0261) [cites 9]
9. \dagger “*An algorithm for the direct reconstruction of the dark matter correlation function from weak lensing and galaxy clustering*”
T. Baldauf, **R. E. Smith**, U. Seljak, R. Mandelbaum, PRD, **81**, 063531 (2010) (arXiv:0911.4973) [cites 11]

10. ★ *“Precision cluster mass determination from weak lensing”*
R. Mandelbaum; U. Seljak; T. Baldauf; **R. E. Smith**, MNRAS in press (2010) (arXiv:0911.4972) [cites 12]
 11. ★ *“Cosmological perturbation theory for baryons and dark matter: One-loop corrections in the renormalized perturbation theory framework”*
G. Somogyi, **R. E. Smith**, PRD, **81**, 023524 (2010) (arXiv:0910.5220) [cites 6]
 12. ★ *“Impact of scale dependent bias and nonlinear structure growth on the ISW effect: angular power spectra”*
R. E. Smith, C. Hernandez-Monteagudo, U. Seljak, PRD, **80**, 063528, (2009) (arXiv:0905.2408) [cites 11]
 13. ★ *“Covariance of cross-correlations: towards efficient measures for large-scale structure”*
R. E. Smith, MNRAS, **400**, 851, (2009) (arXiv:0810.1960) [cites 11]
 14. † *“The cosmology dependence of weak lensing cluster counts”*
L. Marian, **R. E. Smith**, G. M. Bernstein, ApJL, **698**, 33 (2009) (arXiv:0811.1991) [cites 14]
 15. ★ *“An analytic model for the bispectrum of galaxies in redshift space”*
R. E. Smith, R. K. Sheth & R. Scoccimarro, PRD, **78**, 023527, (2008) (arXiv:0712.0017) [cites 22]
 16. ★ *“Statistical properties of the linear tidal shear”*
V. Desjacques, **R. E. Smith**, PRD, **78**, 023523 (2008) (arXiv:0805.2145) [cites 7]
 17. ★ *“On the motion of the acoustic peak in the correlation function”*
R. E. Smith, R. Scoccimarro, & R. K. Sheth, PRD, **77**, 043525 (2008) (arXiv:0703620) [cites 66]
 18. ★ *“The scale dependence of halo and galaxy bias: effects in real space”*
R. E. Smith, R. Scoccimarro, & R. K. Sheth, PRD, **75**, 063512 (2007) (arXiv:0609547) [cites 100]
 19. ★ *“Systematic effects in the sound horizon scale measurements”*
J. Guzik, G. Bernstein, & **R. E. Smith**, MNRAS, **375**, 1329 (2007) (arXiv:0605594) [cites 32]
 20. ★ *“The impact of halo shapes on the bispectrum in cosmology”*:
R. E. Smith, P. I. R. Watts, & R. K. Sheth, MNRAS, **365**, 214 (2006) (arXiv:0508382) [cites 17]
 21. ★ *“Triaxial haloes, intrinsic alignments and the dark matter power spectrum”*:
R. E. Smith & P. I. R. Watts, MNRAS, **360**, 203 (2005) (arXiv:0412441) [cites 17]
 22. ★ *“Spectro-photometric and Weak Lensing Survey of a Supercluster and Typical Field Region – I. Spectroscopic Redshift Measurements”*:
R. E. Smith, H. Dahle, S. J. Maddox, & P. Lilje, ApJ, **617**, 811 (2004) (arXiv:0401641) [cites 2]
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23. *“Stable clustering, the halo model and nonlinear cosmological power-spectra”*
R. E. Smith, J. A. Peacock, A. R. Jenkins, S. D. M. White, C. S. Frenk, F. R. Pearce, P. A. Thomas, G. Efstathiou, & H. M. P. Couchman, MNRAS, **341**, 1311 (2003) (arXiv:0207664) [cites 638]
24. ★ *“The SuperCOSMOS Sky Survey. Paper I: introduction and user guide”*
N. C. Hambly, H. T. MacGillivray, M. A. Read, S. B. Tritton, E. B. Thomson, **R. E. Smith**, et al. MNRAS, **326**, 1279 (2001). [cites 264]
25. *“Halo occupation numbers and galaxy bias”*
J. A. Peacock & **R. E. Smith**, MNRAS, **318**, 1144 (2000) (arXiv:0005010) [cites 325]