

Ofer Lahav - List of Publications

Updated: March 2014

This list is divided into three parts (each in reverse chronological order):

(I) Research papers in refereed journals

(II) Review articles, book chapters etc.

(III) Articles in conference proceedings etc.

Each of the ‘Best 20 Publications’ is marked by (*).

(I) In Refereed Journals

* (277) Partridge, C., Lahav, O. & Hoffman, Y., 2013 “Weighing the Local Group in the Presence of Dark Energy”, MNRAS (Letters), 436, 45

(276) Soumagnac, M.T., Abdalla, F.B., Lahav, O. et al., 2013, “Star/Galaxy Separation at Faint Magnitudes: Application to a Simulated Dark Energy Survey”, submitted to MNRAS (arXiv:1306.5236)

(275) Kirk, D., Lahav, O., Bridle, S., Jouvel, S., Abdalla, F.B., Frieman, J. A.. 2013, “Optimising Spectroscopic and Photometric Galaxy Surveys: Same-sky Benefits for Dark Energy and Modified Gravity”, submitted to MNRAS (arXiv:1307.8062)

(274) Jouvel, S., Abdalla, F., Kirk, D., Lahav, O., Lin, H., Annis, J., Kron, R., Frieman, J.A., 2013, “Optimising Spectroscopic and Photometric Galaxy Surveys: Efficient Target Selection and Survey Strategy”, submitted to MNRAS (arXiv:1307.8061)

(273) Jouvel, S., Host, O., Lahav, O. and CLASH team, 2013, ”CLASH: Photometric redshifts with 16 HST bands in galaxy cluster fields” submitted to A&A, (arXiv:1308.0063)

(272) Eichner, Y. and CLASH team (incl. OL), 2013. “Galaxy Halo Truncation and Giant Arc Surface Brightness Reconstruction in the Cluster MACSJ1206.2-0847”, ApJ, 774, 124

(271) Monna, A. and CLASH team (incl. OL), 2013. “CLASH: $z = 6$ young galaxy candidate quintuply lensed by the frontier field cluster RXC J2248.7-4431”, submitted to MNRAS (arXiv:1308.6280)

(270) Bradley, L.D. and CLASH team (incl. OL), 2013. “CLASH: A Census of Magnified Star-Forming Galaxies at $z = 6-8$ ” submitted to ApJ (arXiv:1308.1692)

(269) Lemze, D. and CLASH team (incl OL), 2013. “The Contribution of Halos with Different Mass Ratios to the Overall Growth of Cluster-Sized Halos”, submitted to ApJ (arXiv:1308.1675)

(268) Smit, R. and CLASH team (incl OL), 2013. “Evidence for Ubiquitous, High-EW Nebular Emission in $z = 7$ Galaxies: Towards a Clean Measurement of the Specific Star Formation Rate using a Sample of Bright, Magnified Galaxies”, submitted to ApJ (arXiv:1307.5847)

- (267) Medezinski, E. and CLASH team (incl OL),. 2013. “CLASH: Complete Lensing Analysis of the Largest Cosmic Lens MACS J0717.5+3745 and Surrounding Structures”, ApJ, in press (arXiv:1304.1223)
- (266), Bouwens, R. and CLASH team (incl OL), 2013. “A Census of Star-Forming Galaxies in the z 9-10 Universe based on HST+Spitzer Observations Over 19 CLASH clusters: Three Candidate z 9-10 Galaxies and Improved Constraints on the Star Formation Rate Density at z 9.2”, submitted to ApJ (arXiv:1211.2230)
- * (265) Zheng, W. and CLASH team (incl. OL), 2012, “A Highly Magnified Candidate for a Young Galaxy When The Universe Was 500 Myrs old”, Nature, 489, 406
- (264) Oikonomou, F., Connolly, A., Abdalla, F. B., Lahav, O., Thomas, S. A., Waters, D., Waxman, E., 2013, “A Search for Correlation of Ultra-High Energy Cosmic Rays with IRAS-PSCz and 2MASS-6dF Galaxies”, JCAP, 05, 0150
- (263) Cacciato, M., Lahav, O., van den Bosch, F. C., Hoekstra, H., & Dekel, A., 2012 “On Combining Galaxy Clustering and Weak Lensing to Unveil Galaxy Biasing via the Halo Model”, MNRAS, 426, 566
- (262) Antonic, M. et al. (incl. OL), 2013, “The impact of camera optical alignments on weak lensing measures for the Dark Energy Survey”, MNRAS, 431, 3291
- (261) Agarwal, S., Abdalla, F.B.; Feldman, H.A.; Lahav, O.; Thomas, S. A., 2012 “PkANN I: Non-Linear Matter Power Spectrum Estimation through Artificial Neural Networks” MNRAS, 424, 1409
- (260) Umetsu, K. and CLASH team (incl OL), 2012, ”CLASH: Mass Distribution in and around MACS J1206.2-0847 from a Full Cluster Lensing Analysis”, ApJ, 755, 56
- (259) Coe, D. and CLASH team (incl. OL), 2012 “CLASH: Precise New Constraints on the Mass Profile of Abell 2261”, ApJ, 757, 22
- (258) Hollis, M., D. J., Balan, S. T.; Lever, G.; Lahav, O., “A Uniformly Derived Catalogue of Exoplanets from Radial Velocities”, MNRAS, 423, 2800 arXiv:1201.0668
- (257) Hawken, A. J.; Abdalla, F. B.; Htsi, G.; Lahav, O., “Calibrating the BAO scale using the CMB: Lifting the degeneracy between geometric and dynamidistortions using the sound horizon from the CMB”, MNRAS, 424, 2
- (256)Huchra, J.P. et al. (incl. OL), 2012, “The 2MASS Redshift Survey - Description and Data Release”, submitted to ApJ Supp, 199, 26
- (255) Zitrin, A. and CLASH team (incl. OL), 2012, “CLASH: New Multiple-Images Constraining the Inner Mass Profile of MACS J1206.2-0847”, submitted to ApJ, 749,
- (254) Zitrin, A. and CLASH team (incl. OL), 2011, “The Cluster Lensing and Supernova Survey with Hubble (CLASH): Strong Lensing Analysis of Abell 383 from 16-Band HST WFC3/ACS Imaging”, ApJ, 742, 117,
- (253) Postman, M. and CLASH team (incl. OL), 2012, “Cluster Lensing And Supernova survey with Hubble (CLASH): An Overview”, ApJ Supp, 199, 25 arXiv:1106.3328

- (252) Thomas, S.A., Abdalla, F.B., Lahav, O., 2011, “Excess clustering on Large Scales in the MegaZ DR7 Photometric Redshift Survey”, PRL, 106, 241301
- (251) Thomas, S.A., Abdalla, F.B., Lahav, O., 2011, “The Angular Power Spectra of Photometric SSDS LRGs”, MNRAS, 412, 1669
- (250) Swanson, M.E.C., Percival, J.W., Lahav, O., 2010, “Neutrino masses from clustering of red and blue galaxies: a test of astrophysical uncertainties”, MNRAS, 409, 1100
- (249) Hildebrandt, H. & the PHAT collaboration (incl. OL), 2010, “PHAT: PHoto-z Accuracy Testing”, A&A, 523, 31
- * (248) Thomas, S.A., Abdalla, F.B., Lahav, O., 2010, “Upper Bound of 0.28eV on the Neutrino Masses from the Largest Photometric Redshift Survey”, PRL, 105, 031301
- (247) Banerji, M., Ferreras, I., Abdalla, F. B.; Hewett, P.; Lahav, O., 2010, “Exploring the luminosity evolution and stellar mass assembly of 2SLAQ luminous red galaxies between redshifts 0.4 and 0.8”, MNRAS, 404, 2264
- (246) Rogers, B. Ferreras, I., Pasquali, A., Bernardi, M., Lahav, O. Kaviraj, S., 2010, “The role of environment on the formation of early-type galaxies”, MNRAS, 405, 329
- (245) Lahav, O., Kiakotou, A., Abdalla, F. B.; Blake, C., 2010, “Forecasting neutrino masses from galaxy clustering in the Dark Energy Survey combined with the Planck measurements”, MNRAS, 405, 168
- (244) Banerji, M., Lahav, O. et al., 2010. “Galaxy Zoo: reproducing galaxy morphologies via machine learning”, MNRAS, 406, 342
- (243) Erdogdu, P. & Lahav, O., 2009, “Is the misalignment of the Local Group velocity and the 2MRS dipole typical in a Λ CDM & halo model?”, PRD, 80, 3005
- (242) Jones, D. H. & 6dF team (Including OL), 2009, “The 6dF Galaxy Survey: Final Redshift Release (DR3) and Southern Large-Scale Structures”. MNRAS, 399, 683
- (241) Abdalla, F.B., Banerji, M., Lahav, O., Rashkov, V., 2011, “A comparison of six photometric redshift methods applied to 1.5 Million Luminous Red Galaxies”, MNRAS, 417, 1891
- (240) Hutsi, G. & Lahav, O., 2008. “The cluster-galaxy cross spectrum: an additional probe of cosmological and halo parameters” A&A, 492, 355
- *(239) Balan, S. & Lahav, O., 2009. “ExoFit: Orbital Parameters of Extra-solar Planets from Radial Velocities”, MNRAS, 394, 1936
- (238) Abate, A. & Lahav, O., 2008. “The three faces of Ω_m : testing gravity with low and high redshift SN Ia Surveys”, MNRAS, 389, 47
- (237) Abdalla, F.B., Mateus, A., Santos, W.A., Sodre L.r, Ferreras, I., Lahav, O., 2008. “Predicting spectral features in galaxy spectra from broad-band photometry”, MNRAS, 387, 945
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(234) Kiakotou, A., Elgaroy, O.; Lahav, O., 2008. “Neutrino Mass, Dark Energy, and the Linear Growth Factor”, Phys. Rev. D, 77, 063005

(233) Rogers, B., Ferreras, I., Lahav, O.; Bernardi, M.; Kaviraj, S., Yi, Su. K., 2007. “Decoding the spectra of SDSS early-type galaxies: new indicators of age and recent star formation”, MNRAS, 382, 750

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(229) Rassat A., Land K., Lahav O., Abdalla F. B., 2007, “Cross-correlation of 2MASS and WMAP3: Implications for the Integrated Sachs-Wolfe effect”, MNRAS, 377, 1085

(228) Collister A., Lahav, O. et al., 2007, “MegaZ-LRG: A photometric redshift catalogue of one million SDSS Luminous Red Galaxies”, MNRAS, 375, 68

*(227) Blake C., Collister A., Bridle S., Lahav O., 2007. “Cosmological baryonic and matter densities from 600,000 SDSS Luminous Red Galaxies with photometric redshifts”, MNRAS, 374, 1527

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(224) Ferreras I., Pasquali A., de Carvalho R. R., de la Rosa I. G., Lahav O., 2006,. “A Principal Component Analysis approach to the Star Formation History of elliptical galaxies in Compact Groups”, MNRAS, 370, 828

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- (219) Cole, S. & the 2dFGRS team (incl. OL) , 2005. “The 2dF Galaxy Redshift Survey: Power-spectrum analysis of the final dataset and cosmological implications”, MNRAS, 362, 505
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- (214) Burgett, W.S. & the 2dFGRS team (incl. OL), 2004. “Substructure Analysis of Selected Low Richness 2dFGRS Clusters of Galaxies”, MNRAS, 352, 605
- (213) Conway, W. & the 2dFGRS team (incl. OL), 2005. “The nature of the relative bias between galaxies of different spectral type in 2dFGRS”, MNRAS, 356, 456
- (212) Wild, V., Peacock, J.A., Lahav, O. & the 2dFGRS team, 2005, “The 2dF Galaxy Redshift Survey: stochastic relative biasing between galaxy populations”, MNRAS, 356, 247
- (211) Jones, H. & the 6dFGRS team (incl. OL) , 2004. “The 6dF Galaxy Survey: Samples, Observational Techniques and the First Data Release” MNRAS, 355, 747 (astro-ph/0403501).
- (210) de Propris, R. & the 2dFGRS team (incl. OL) , 2004. “The 2dF Galaxy Redshift Survey: The blue galaxy fraction and implications for the Butcher-Oemler effect” MNRAS, 351, 125
- (209) Padilla, N.D. & the 2dFGRS team (incl. OL) , 2004. “The 2dF Galaxy Redshift Survey: The clustering of galaxy groups” MNRAS, 352, 211
- (208) Balogh, M. & the 2dFGRS team (incl. OL) , 2004. “Galaxy ecology: groups and low-density environments in the SDSS and 2dFGRS”, MNRAS, 348, 1355.
- (207) Eke, V.R. & the 2dFGRS team (incl. OL) , 2004. “Galaxy groups in the 2dFGRS: the luminous content of the groups” MNRAS, 355, 769
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- (194) Madgwick, D.S., Somerville, R., Lahav, O., Ellis, R.S., 2003. “Galaxy spectral parameterisation in the 2dF Galaxy Redshift Survey as a diagnostic of star formation history”, MNRAS, 343, 871
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