

Possible Papers for Journal Club 2012-2016

Not Yet Discussed

[arXiv:1612.09582](#)

Perspective on MOND emergence from Verlinde's "emergent gravity" and its recent test by weak lensing
Mordehai Milgrom, Robert H. Sanders

[arXiv:1612.07406](#)

Causality Implies Inflationary Back-Reaction
S. Basu, N.C. Tsamis, R.P. Woodard

[arXiv:1612.04824](#)

Geometric Baryogenesis from Shift Symmetry
Andrea De Simone, Takeshi Kobayashi, Stefano Liberati

[arXiv:1612.03726](#)

How does the cosmic large-scale structure bias the Hubble diagram?
Pierre Fleury, Chris Clarkson, Roy Maartens

[arXiv:1612.03157](#)

No fifth force in a scale invariant universe
Pedro G. Ferreira, Christopher T. Hill, Graham G. Ross

[arXiv:1612.02833](#)

Halo assembly bias from Separate Universe simulations
Aseem Paranjape, Nikhil Padmanabhan

[arXiv:1612.02454](#)

Separate Universes beyond General Relativity
Wayne Hu, Austin Joyce

[arXiv:1612.01529](#)

The tangential velocity excess of the Milky Way satellites
Marius Cautun, Carlos S. Frenk

[arXiv:1612.00353](#)

Time in quantum cosmology
Martin Bojowald, Theodore Halnon

[arXiv:1611.09781](#)

Intrinsic Conformal Symmetries in Szekeres models
Pantelis S. Apostolopoulos

[arXiv:1611.09348](#)

On the complexity and the information content of cosmic structures
Franco Vazza

[arXiv:1611.08606](#)

Lensing is Low: Cosmology, Galaxy Formation, or New Physics?
A. Leauthaud, et al,

[arXiv:1611.07915](#)

The many scales to cosmic homogeneity: Use of multiple tracers from the SDSS
Prakash Sarkar, Subhabrata Majumdar, Biswajit Pandey, Atul Kedia, Suman Sarkar

[arXiv:1611.04569](#)

Szekeres models: a covariant approach
Pantelis S. Apostolopoulos

[arXiv:1610.09424](#)

Initial conditions for cosmological perturbations
Abhay Ashtekar, Brajesh Gupt

[arXiv:1610.08882](#)

Cosmology on all scales: a two-parameter perturbation expansion
Sophia R. Goldberg, Timothy Clifton, Karim A. Malik

[arXiv:1610.08176](#)

Probing statistical isotropy of cosmological radio sources using SKA
Shamik Ghosh, Pankaj Jain, Gopal Kashyap, Rahul Kothari, Sharvari Nadkarni-Ghosh, Prabhakar Tiwari

[arXiv:1610.07695](#)

The need for accurate redshifts in supernova cosmology
Josh Calcino, Tamara Davis

[arXiv:1610.06215](#)

Density-dependent clustering: I. Pulling back the curtains on motions of the BAO peak
Mark C. Neyrinck, István Szapudi, Nuala McCullagh, Alex Szalay, Bridget Falck, Jie Wang

[arXiv:1610.05943](#)

Two fundamental cosmological laws of the Local Universe
Yurij V. Baryshev

[arXiv:1610.03351](#)

A general relativistic signature in the galaxy bispectrum
Obinna Umeh, Sheean Jolicœur, Roy Maartens, Chris Clarkson

[arXiv:1610.02951](#)

Conformal mapping of the Misner-Sharp mass from gravitational collapse
Fayçal Hammad

[arXiv:1610.01968](#)

Four principles for quantum gravity
Lee Smolin

[arXiv:1610.01059](#)

Large-Scale Tides in General Relativity
Hui Yan Ip, Fabian Schmidt

[arXiv:1610.00037](#)

Imprint of DES super-structures on the Cosmic Microwave Background
A. Kovács, et al (DES collaboration)

[arXiv:16109.00015](#)

Beyond the Boost: Measuring the intrinsic dipole of the CMB using the spectral distortions of the monopole and quadrupole
Siavash Yasini, Elena Pierpaoli

[arXiv:1609.08247](#)

Cosmological Forecasts for Combined and Next Generation Peculiar Velocity Surveys
Cullan Howlett, Lister Staveley-Smith, Chris Blake

[arXiv:1609.01747](#)

What galaxy masses perturb the local cosmic expansion?
Jorge Peñarrubia, Azadeh Fattahi

[arXiv:1609.03724](#)

Cosmic backreaction and Gauss's law
Pierre Fleury

[arXiv:1609.03576](#)

Performance study of Lagrangian methods: reconstruction of large scale peculiar velocities and baryonic acoustic oscillations
Ariel Keselman, Adi Nusser

[arXiv:1609.02776](#)

Multiscale spacetimes from first principles
Gianluca Calcagni

[arXiv:1609.01205](#)

New thresholds for Primordial Black Hole formation during the QCD phase transition
J. L. G. Sobrinho, P. Augusto and A. L. Goncalves

[arXiv:1608.05516](#)

A quantum bound on the thermodynamic description of gravity
Shahar Hod

[arXiv:1608.01422](#)

Turning around along the cosmic web
Jounghun Lee, Gustavo Yepes

[arXiv:1607.08661](#)

Einstein's equations from Einstein's inertial motion and Newton's law for relative acceleration
Christoph Schmid

[arXiv:1607.07589](#)

Cosmology without time: What to do with a possible signature change from quantum gravitational origin?
Aurélien Barrau, Julien Grain

[arXiv:1607.06944](#)

Satellite Test of the Equivalence Principle as a Probe of Modified Newtonian Dynamics
Jonas P. Pereira, James M. Overduin, Alexander J. Poyneer

[arXiv:1607.06098](#)

Constraining the Baryon-Dark Matter Relative Velocity with the Large-Scale 3-Point Correlation Function of the SDSS BOSS DR12 CMASS Galaxies
Z Slepian et al

[arXiv:1607.06097](#)

Detection of Baryon Acoustic Oscillation Features in the Large-Scale 3-Point Correlation Function of SDSS BOSS DR12 CMASS Galaxies
Z Slepian et al

[arXiv:1607.05617](#)

The trouble with H_0
Jose Luis Bernal, Licia Verde, Adam G. Riess

[arXiv:1607.05297](#)

The length of the low-redshift standard ruler
Licia Verde, Jose Luis Bernal, Alan F. Heavens, Raul Jimenez

[arXiv:1607.05226](#)

Lagrangian theory for cosmic structure formation with vorticity: Newtonian and post-Friedmann approximation
Cornelius Rampf, Eleonora Villa, Daniele Bertacca, Marco Bruni

[arXiv:1607.05103](#)

Universal MOND relation between the baryonic and 'dynamical' central surface densities of disc galaxies
Mordehai Milgrom

[arXiv:1607.03900](#)

The primordial deuterium abundance of the most metal-poor damped Lyman-alpha system
Ryan Cooke, Max Pettini, Kenneth M. Nollett, Regina Jorgenson

[arXiv:1607.02460](#)

Relationalism Evolves the Universe Through the Big Bang
Tim A Koslowski, Flavio Mercati, David Sloan

[arXiv:1607.00775](#)

The Magnetic Part of the Weyl Tensor, and the Expansion of Discrete Universes
Timothy Clifton, Daniele Gregoris, Kjell Rosquist

[arXiv:1606.06758](#)

Model-independent test of the FLRW metric, the flatness of the Universe and non-local measurement of H_0
Benjamin L'Huillier, Arman Shafieloo

[arXiv:1606.06758](#)

Comparing cosmic web classifiers using information theory
Florent Leclercq, Guilhem Lavaux, Jens Jasche, Benjamin Wandelt

[arXiv:1606.03114](#)

The Alcock Paczyński test with Baryon Acoustic Oscillations: systematic effects for future surveys
Francesca Lepori, Enea Di Dio, Matteo Viel, Carlo Baccigalupi, Ruth Durrer

[arXiv:1606.02677](#)

The role of conformal symmetry in gravity and the standard model
Stefano Lucat, Tomislav Prokopec

[arXiv:1606.01215](#)

Self-gravitating fluid solutions of Shape Dynamics
Daniel C. Guariento, Flavio Mercati

[arXiv:1606.00439](#)

The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: RSD measurement from the power spectrum and bispectrum of the DR12 BOSS galaxies
Héctor Gil-Marín, Will J. Percival, Licia Verde, Joel R. Brownstein, Chia-Hsun Chuang, Francisco-Shu Kitaura, Sergio A. Rodríguez-Torres, Matthew D. Olmstead

[arXiv:1605.08650](#)

Isentropic Spheres in General Relativity
Mayer Humi, John Roumas

[arXiv:1605.06617](#)

Global and Local Horizon Quantum Mechanics
R. Casadio, A. Giugno, A. Giusti

[arXiv:1605.05155](#)

Critical points of the cosmic velocity and the uncertainties in the value of the Hubble constant
Hao Liu, Roya Mohayaee, Pavel Naselsky

[arXiv:1605.00486](#)

Calibrating High Redshift Ia Supernovae using the Distance Duality Relation
Jarah Evslin

[arXiv:1605.00231](#)

Conformal and projective symmetries in Newtonian cosmology
Christian Duval, Gary Gibbons, Peter Horvathy

[arXiv:1604.08899](#)

Theoretical Aspects of Cosmic Acceleration
Mark Trodden

[arXiv:1604.06947](#)

What are $\Omega_m h^2(z_1, z_2)$ and $\Omega_m(z_1, z_2)$ diagnostics telling us in light of $H(z)$ data?
Xiaogang Zheng, Xuheng Ding, Marek Biesiada, Shuo Cao, Zonghong Zhu

[arXiv:1604.06947](#)

Relative information entropy in cosmology: The problem of information entanglement
Viktor G. Czinner, Filipe C. Mena

[arXiv:1604.05321](#)

Effect of observational holes and borders on lacunarity and fractality measurements in a galaxy catalogue
Jorge E. García-Farieta, Rigoberto A. Casas-Miranda

[arXiv:1604.03543](#)

On the time delay between ultrarelativistic particles
Pierre Fleury

[arXiv:1603.05449](#)

Limits of time in cosmology
Svend E. Rugh and Henrik Zinkernagel

[arXiv:1603.05184](#)

Redshift-space distortions around voids
Yan-Chuan Cai, Andy Taylor, John A. Peacock, Nelson Padilla

[arXiv:1603.02679](#)

The Local Group: The Ultimate Deep Field
Michael Boylan-Kolchin, Daniel R. Weisz, James S. Bullock, Michael C. Cooper

[arXiv:1603.02664](#)

Interpreting the CMB aberration and Doppler measurements: boost or intrinsic dipole?
Omar Roldan, Alessio Notari, Miguel Quartin

[arXiv:1603.00501](#)

Probing Neutrino Mass Hierarchy by Comparing the Charged-Current and Neutral-Current Interaction Rates of Supernova Neutrinos
Luis Lehner, Steven L. Liebling, Carlos Palenzuela, O. L. Caballero, Evan O'Connor, Matthew Anderson, David Neilsen

[arXiv:1603.00951](#)

Stochastic Einstein equations with fluctuating volume
Vladimir Dzhunushaliev and Hernando Quevedo

[arXiv:1602.08541](#)

Voids in cosmological simulations over cosmic time
Radosaw Wojtak, Devon Powell, Tom Abel

[arXiv:1602.02103](#)

First evidence of running cosmic vacuum: challenging the concordance model
Joan Sola, Adria Gomez-Valent, Javier de Cruz Perez

[arXiv:1602.07699](#)

General relativistic 'screening' in cosmological simulations
Oliver Hahn, Aseem Paranjape

[arXiv:1601.01701](#)

A 6% measurement of the Hubble parameter at $z = 0.45$: direct evidence of the epoch of cosmic re-acceleration
Michele Moresco, Lucia Pozzetti, Andrea Cimatti, Raul Jimenez, Claudia Maraston, Licia Verde, Daniel Thomas, Annalisa Citro, Rita Tojeiro, David Wilkinson

[arXiv:1512.08489](#)

Time of flight of ultra-relativistic particles in a realistic Universe: a viable tool for fundamental physics?
G. Fanizza, M. Gasperini, G. Marozzi, G. Veneziano

[arXiv:1512.05729](#)

Buchert coarse-graining and the classical energy conditions
Matt Visser

[arXiv:1512.05624](#)

Redshift drift in an inhomogeneous universe: averaging and the backreaction conjecture
S.M. Koksang, S. Hannestad

[arXiv:1512.05624](#)

Beyond Λ CDM: Problems, solutions, and the road ahead
Philip Bull, Yashar Akrami, et al.

arXiv:1512.02932

Gravitational-wave implications for structure formation: a second-order approach
Despoina Pazouli, Christos G. Tsagas

arXiv:1511.08663

Quasi-local approach to general universal horizons
Alan Maciel

arXiv:1511.06930

The 6dF Galaxy Survey: Bulk Flows on 5070 /h Mpc scales
Morag I. Scrimgeour, Tamara M. Davis, Chris Blake, Lister Staveley-Smith, Christina Magoulas, Christopher M. Springob, Florian Beutler, Matthew Colless, Andrew Johnson, D. Heath Jones, Jun Koda, John R. Lucey, Yin-Zhe Ma, Jeremy Mould, Gregory B. Poole

arXiv:1511.05856

The matter distribution in the local universe as derived from galaxy groups in SDSS DR12 and 2MRS
Christoph Saulder, Eelco van Kampen, Steffen Mieske, Werner W. Zeilinger

arXiv:1511.04849

2MTF V. Cosmography, Beta, and the residual bulk flow
Christopher M. Springob, Tao Hong, Lister Staveley-Smith, Karen L. Masters, Lucas M. Macri, Baerbel S. Koribalski, D. Heath Jones, Tom H. Jarrett, Christina Magoulas, Pirin Erdogdu

arXiv:1511.04405

Signatures of the primordial Universe from its emptiness
Francisco-Shu Kitaura, Chia-Hsun Chuang, Yu Liang, Cheng Zhao, Charling Tao, Sergio Rodriguez-Torres, Daniel J. Eisenstein, Hector Gil-Marin, Jean-Paul Kneib, Cameron McBride, Will Percival, Ashley J. Ross, Ariel G. Sanchez, Jeremy Tinker, Rita Tojeiro, Mariana Vargas-Magana, Gong-Bo Zhao

arXiv:1511.04391

Measuring Baryon Acoustic Oscillations from the clustering of voids
Yu Liang, Cheng Zhao, Chia-Hsun Chuang, Francisco-Shu Kitaura, Charling Tao

arXiv:1511.03320

Cosmological perturbation theory with York time
Philipp Roser

arXiv:1511.01106

Integration of inhomogeneous cosmological spacetimes in the BSSN formalism
John T. Giblin, James B. Mertens, Glenn D. Starkman

arXiv:1511.01105

Departures from the FLRW Cosmological Model in an Inhomogeneous Universe: A Numerical Examination
John T. Giblin, James B. Mertens, Glenn D. Starkman

arXiv:1511.00055

Quantifying discordance in the 2015 Planck CMB spectrum
G. E. Addison, Y. Huang, D. J. Watts, C. L. Bennett, M. Halpern, G. Hinshaw and J. L. Weiland

arXiv:1510.08060

On the persistence of two small-scale problems in CDM
Marcel S. Pawlowski, Benoit Famaey, David Merritt, Pavel Kroupa

arXiv:1510.06442

Evidence for the kinematic Sunyaev-Zeldovich effect with ACTPol and velocity reconstruction from BOSS
E. Schaan et al

arXiv:1510.05545

Constraining the local variance of H_0 from directional analyses
C.A.P. Bengaly

arXiv:1510.03789

Is the Hawking quasilocal energy "Newtonian"?
Valerio Faraoni

arXiv:1509.06736

Litmus Test for Cosmic Hemispherical Asymmetry in the CMB B-mode polarization
Suvodip Mukherjee, Tarun Souradeep

arXiv:1509.06371

The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the correlation function of LOWZ and CMASS galaxies in Data Release 12
Antonio J. Cuesta et al.

arXiv:1509.06316

Blueshifting may explain the gamma ray bursts
Andrzej Krasinski

[arXiv:1509.05374](#)

Kinematic dipole detection with galaxy surveys: forecasts and requirements
Mijin Yoon, Dragan Huterer

[arXiv:1509.04430](#)

Spectral Properties of Galaxies in Void Regions
Chenxu Liu, Danny Pan, Lei Hao, Fiona Hoyle, Anca Constantin, Micheal S. Vogeley

[arXiv:1509.04342](#)

Relationship between the CMB, SZ Cluster Counts, and Local Hubble Parameter Measurements in a Simple Void Model
Kiyotomo Ichiki, Chul-Moon Yoo, Masamune Oguri

[arXiv:1509.03835](#)

First-order cosmological perturbations engendered by point-like masses: all scales covered
Maxim Eingorn

[arXiv:1509.02532](#)

Revisiting the NVSS number count dipole
Prabhakar Tiwari, Adi Nusser

[arXiv:1509.01699](#)

General relativity and cosmic structure formation
Antonio Enea Romano, Daniel Cornejo, Luis E. Campusano

[arXiv:1509.00010](#)

The view from the boundary: a new void stacking method
Marius Cautun, Yan-Chuan Cai, Carlos S. Frenk

[arXiv:1509.01879](#)

Detection of a new large angular CMB anomaly and its alignment with cosmic structure
Julian Adamek, David Daverio, Ruth Durrer, Martin Kunz

[arXiv:1508.07903](#)

The theory of stochastic cosmological lensing
Pierre Fleury, Julien Larena, Jean-Philippe Uzan

[arXiv:1508.07491](#)

Galactic mapping with general relativity and the observed rotation curves
Nadja S. Magalhaes, Fred I. Cooperstock

[arXiv:1508.06704](#)

Parity Horizons, Black Holes, and Chronology Protection in Shape Dynamics
Gabriel Herczeg

[arXiv:1508.06286](#)

Distribution function of the Atoms of Spacetime and the Nature of Gravity
T. Padmanabhan

[arXiv:1508.03127](#)

Multiple non-spherical structures from the extrema of Szekeres scalars
Roberto A. Sussman, Ismael Delgado Gaspar

[arXiv:1508.01510](#)

Cosmic Acceleration as an Optical Illusion
Harald Skarke

[arXiv:1508.01289](#)

Isolated dSph galaxy KKs3 in the local Hubble flow
I.D. Karachentsev, A.Yu. Kniazev, M.E. Sharina

[arXiv:1507.07447](#)

Probing the isotropy of cosmic acceleration traced by Type Ia supernovae
Behnam Javanmardi, Cristiano Porciani, Pavel Kroupa, Jan Pflamm-Altenburg

[arXiv:1507.07447](#)

Spacelike spherically symmetric CMC foliation in the extended Schwarzschild spacetime
Kuo-Wei Lee, Yng-Ing Lee

[arXiv:1507.07300](#)

Gravitational Energy for GR and Poincare Gauge Theories: a Covariant Hamiltonian Approach
Chiang-Mei Chen, James M. Nester, Roh-Suan Tung

[arXiv:1507.06498](#)

Entropy and the Typicality of Universes
Julian Barbour, Tim Koslowski, Flavio Mercati

[arXiv:1507.03124](#)

Dipole Modulation of Cosmic Microwave Background Temperature and Polarization
Shamik Ghosh, Rahul Kothari, Pankaj Jain, Pranati K. Rath

[arXiv:1507.03124](#)

Testing homogeneity in the Sloan Digital Sky Survey Data Release Twelve with Shannon entropy
Biswajit Pandey, Suman Sarkar

[arXiv:1507.02306](#)

Realistic coarse-grained cosmic structure from Szekeres models
Roberto A. Sussman and I. Delgado Gaspar

[arXiv:1507.02160](#)

The angular two-point correlation of NVSS galaxies revisited
Song Chen, Dominik J. Schwarz

[arXiv:1507.00197](#)

The nature of voids: II. Tracing underdensities with biased galaxies
Seshadri Nadathur, Shaun Hotchkiss

[arXiv:1506.09143](#)

Inflation, evidence and falsifiability
Giulia Gubitosi, Macarena Lagos, Joao Magueijo, Rupert Allison

[arXiv:1506.07135](#)

Planck 2015 results. XVI. Isotropy and statistics of the CMB
P.A.R. Ade et al, Planck Collaboration

[arXiv:1506.05873](#)

The Trajectory of the Cosmic Plasma Through the Quark Matter Phase Diagram
Brett McInnes

[arXiv:1506.04609](#)

Combined constraints on deviations of dark energy from an ideal fluid from Euclid and Planck
Elisabetta Majerotto, Domenico Sapone, Bjoern Malte Schaefer

[arXiv:1506.04405](#)

Microwave Background Correlations from Dipole Anisotropy Modulation
Simone Aiola, Bingjie Wang, Arthur Kosowsky, Tina Kahniashvili, Hassan Firouzjahili

[arXiv:1506.04587](#)

The Luminous Convolution Model for spiral galaxy rotation curves
S. Cisneros, J.G. O'Brien, N.S. Oblath, J.A. Formaggio

[arXiv:1506.04009](#)

A universal velocity dispersion profile for pressure supported systems: evidence for MONDian gravity across 12 orders of magnitude in mass
X. Hernandez, R. Durazo, B. Cervantes-Sodi, H. J. Ibarra-Medel, O. Lopez-Cruz

[arXiv:1506.02003](#)

A new approach to the propagation of light-like signals in perturbed cosmological backgrounds
G. Fanizza, M. Gasperini, G. Marozzi, G. Veneziano

[arXiv:1506.00384](#)

The difficulty of measuring the local dark matter density
Frederic V. Hessman

[arXiv:1506.00550](#)

A novel approach to reconstructing signals of isotropy violation from a masked CMB sky
Pavan K. Aluri, Nidhi Pant, Aditya Rotti, Tarun Souradeep

[arXiv:1505.06028](#)

Spectral distortions of the CMB dipole
S.A. Balashev, E.E. Kholupenko, J. Chluba, A.V. Ivanchik, D.A. Varshalovich

[arXiv:1504.05578](#)

On the Physical Origin of Galactic Conformity
Andrew P. Hearin, Peter S. Behroozi, Frank C. van den Bosch

[arXiv:1504.04627](#)

Cosmological parameters from the comparison of peculiar velocities with predictions from the 2M++ density field
Jonathan Carrick, Stephen J. Turnbull, Guilhem Lavaux, Michael J. Hudson

[arXiv:1504.04366](#)

Equivalence Principle and the Baryon Acoustic Peak
Tobias Baldauf, Mehrdad Mirbabayi, Marko Simonovi, Matias Zaldarriaga

[arXiv:1504.04011](#)

Constraints on the missing baryons from the kinetic Sunyaev-Zeldovich effect in Planck data
Carlos Hernández-Monteagudo, Yin-zhe Ma, Francisco-Shu Kitaura, Wenting Wang, Ricardo Génova-Santos, Juan Macías-Pérez, Diego Herranz

[arXiv:1504.03653](#)

Probing the integrated Sachs-Wolfe effect using embedded lens models
Bin Chen, Ronald Kantowski

[arXiv:1504.03027](#)

Modified Gravity and Large Scale Flows
Jeremy Mould, Matthew Colless, Tamara Davis, Pirin Erdogdu, Heath Jones, John Lucey, Yin-Zhe Ma, Christina Magoulas and Chris Springob

[arXiv:1504.02076](#)

On the proper kinetic quadrupole CMB removal and the quadrupole anomalies
Alessio Notari, Miguel Quartin

[arXiv:1504.00351](#)

On Separate Universes
Liang Dai, Enrico Pajer, Fabian Schmidt

[arXiv:1503.08506](#)

On the Bias of the Distance-Redshift Relation from Gravitational Lensing
Nick Kaiser, John A. Peacock

[arXiv:1503.02566](#)

Lagrangian theory of structure formation in relativistic cosmology III: gravitoelectric perturbation and solution schemes at any order
Alexandre Alles, Thomas Buchert, Fosca Al Roumi, Alexander Wiegand

[arXiv:1502.02011](#)

Conformal Fermi Coordinates
Liang Dai, Enrico Pajer and Fabian Schmidt

[arXiv:1502.04320](#)

Hypothesis on the Nature of Time
D.N. Coumbe

[arXiv:1501.07064](#)

The radial velocity profile of the filament galaxies in the vicinity of the Virgo cluster as a test of gravity
Jounghun Lee, Suk Kim, Soo-Chang Rey

[arXiv:1501.04906](#)

Cosmological evolution of the gravitational entropy of the large-scale structure
Giovanni Marozzi, Jean-Philippe Uzan, Obinna Umeh, Chris Clarkson

[arXiv:1501.03119](#)

Constraints and tensions in testing general relativity from Planck and CFHTLenS including intrinsic alignment systematic
Jason N. Dossett, Mustapha Ishak, David Parkinson, Tamara Davis

[arXiv:1412.8404](#)

On spherical dust fluctuations: the exact vs. the perturbative approach
Roberto A. Sussman, Juan Carlos Hidalgo, Peter K. S. Dunsby, Gabriel German

[arXiv:1412.7310](#)

Cosmic flows and the expansion of the Local Universe from nonlinear phase-space reconstructions
Steffen Hess, Francisco-Shu Kitaura

[arXiv:1412.7208](#)

Averaging in LRS class II spacetimes
Petr Kaspar, Otakar Svitek

[arXiv:1412.6832](#)

Modified Newtonian potentials for particles and fluids in permanent rotation around black holes
V. Karas, M. A. Abramowicz

[arXiv:1412.5472](#)

Entanglement density and gravitational thermodynamics
Jyotirmoy Bhattacharya, Veronika E. Hubeny, Mukund Rangamani, Tadashi Takayanagi

[arXiv:1412.5151](#)

Homogeneity and isotropy in the 2MASS Photometric Redshift catalogue
David Alonso, Ana Isabel Salvador, Francisco Javier Sanchez, Maciej Bilicki, Juan Garcia-Bellido, Eusebio Sanchez

[arXiv:1412.5115](#)

Quasilocal conformal Killing horizons: Classical phase space and the first law
Ayan Chatterjee, Avirup Ghosh

[arXiv:1412.4976](#)

A new test of the FLRW metric using distance sum rule
Syksy Rasanen, Krzysztof Bolejko and Alexis Finoguenov

[arXiv:1412.4344](#)

Cosmological variation of the MOND constant: secular effects on galactic systems
Mordehai Milgrom

[arXiv:1412.3865](#)

Nonlinear effects of general relativity from multiscale structure
Mikolaj Korzynski

[arXiv:1412.3808](#) [Phys. Lett. B 379 (2014) 383]

Self-gravitating field configurations: The role of the energy-momentum trace
Shahar Hod

[arXiv:1411.6339](#)

On the perturbation of the luminosity distance by peculiar motions
Nick Kaiser and Michael J. Hudson

[arXiv:1411.4368](#)

Kullback-Leibler entropy and Penrose conjecture in the Lemaitre-Tolman-Bondi model
Xiao-Long Li, Shu-Peng Song, Nan Li

[arXiv:1411.4180](#)

Probing the Dark Flow signal in WMAP 9 yr and PLANCK cosmic microwave background maps
Xin Wang, Alex Szalay

[arXiv:1411.4117](#)

On the Nonlinear Evolution of Cosmic Web: Lagrangian Dynamics Revisited
Fernando Atrio-Barandela, Alexander Kashlinsky, Harald Ebeling, Dale J. Fixsen and Dale Kocevski

[arXiv:1411.3718](#)

Eppur si muove: Positional and kinematic correlations of satellite pairs in the low Z universe
Rodrigo A. Ibata, Benoit Famaey, Geraint F. Lewis, Neil G. Ibata, Nicolas Martin

[arXiv:1411.1511](#)

Galaxy Groups
R. Brent Tully

[arXiv:1411.1094](#)

Calibrating the cosmic distance scale ladder: the role of the sound horizon scale and the local expansion rate as distance anchors
Antonio J. Cuesta, Licia Verde, Adam Riess, Raul Jimenez

[arXiv:1410.6480](#)

Gauge-invariant average of Einstein equations for finite volumes
Juri Smirnov

[arXiv:1410.5562](#)

Probing bulk flow with nearby SNe Ia data
Stephen Appleby, Arman Shafieloo, Andrew Johnson

[arXiv:1410.4751](#)

The Persistent Percolation of Single-Stream Voids
Bridget Falck, Mark C. Neyrinck

[arXiv:1410.4608](#)

An integrated Sachs-Wolfe effect vs redshift test for the cosmological parameters
Ronald Kantowski, Bin Chen, Xinyu Dai

[arXiv:1410.4559](#)

Two new methods to detect cosmic voids without density measurements
Andrii Elyiv, Federico Marulli, Giorgia Pollina, Marco Baldi, Enzo Branchini, Andrea Cimatti, Lauro Moscardini

[arXiv:1410.2172](#)

The extended ROSAT-ESO Flux-Limited X-ray Galaxy Cluster Survey (REFLEX II) V. Exploring a local underdensity in the Southern Sky
Hans Boehringer, Gayoung Chon, Martyn Bristow, Chris A. Collins

[arXiv:1409.6217](#)

Standard rulers, candles, and clocks from the low-redshift Universe
Alan Heavens, Raul Jimenez, Licia Verde

[arXiv:1409.5377](#)

Blueshifts in the Lemaitre - Tolman models
Andrzej Krasinski

[arXiv:1409.3816](#)

Asymptotics with a positive cosmological constant: I. Basic framework
Abhay Ashtekar, Beatrice Bonga, Aruna Kesavan

[arXiv:1409.3580](#)

Testing cosmic geometry without dynamic distortions using voids
Nico Hamaus, P. M. Sutter, Guilhem Lavaux, Benjamin D. Wandelt

[arXiv:1409.1837](#)

Back-reaction of the Hawking radiation flux on a gravitationally collapsing star II: Fireworks instead of firewalls
Laura Mersini-Houghton, Harald P. Pfeiffer

[arXiv:1409.0880](#) [**Nature 513, 71 (2014)**]

The Laniakea supercluster of galaxies
R. Brent Tully, Helene Courtois, Yehuda Hoffman, Daniel Pomarède

[arXiv:1408.5792](#)

On the significance of power asymmetries in Planck CMB data at all scales
Miguel Quartin, Alessio Notari

[arXiv:1408.5435](#)

Tests of streaming models for redshift-space distortions
Martin White, Beth Reid, Chia-Hsun Chuang, Jeremy L. Tinker, Cameron K. McBride, Francisco Prada, Lado Samushia

[arXiv:1408.5137](#)

Proper-Time Hypersurface of Non-Relativistic Matter Flows: Galaxy Bias in General Relativity
Jaiyul Yoo

[arXiv:1408.4720](#)

Can a supervoid explain the Cold Spot?
Seshadri Nadathur, Mikko Lavinto, Shaun Hotchkiss and Syksy Rasanen

[arXiv:1408.3166](#)

The Local Group in the cosmic web
Jaime E. Forero-Romero, Roberto E. Gonzalez

[arXiv:1408.2741](#)

Can small scale structure ever affect cosmological dynamics?
Julian Adamek, Chris Clarkson, Ruth Durrer, Martin Kunz

[arXiv:1408.2691](#)

Time remains
Sean Gryb, Karim Thebault

[arXiv:1407.7423](#)

The Evolving Block Universe and the Meshing Together of Times
George F R Ellis

[arXiv:1407.6940](#)

Large-scale Cosmic Flows from Cosmicflows-2 Catalog
Richard Watkins, Hume A. Feldman

Nature doi:10.1038/nature13481

Velocity anti-correlation of diametrically opposed galaxy satellites in the low-redshift Universe
Neil G. Ibata, Rodrigo A. Ibata, Benoit Famaey, Geraint F. Lewis

[arXiv:1407.4810](#)

Coarse-grained cosmological perturbation theory: stirring up the dust model
Cora Uhlemann, Michael Kopp

[arXiv:1407.2909](#)

Linking shape dynamics and loop quantum gravity
Lee Smolin

[arXiv:1407.2862](#)

Mimicking acceleration in the constant-bang-time Lemaître-Tolman model: Shell crossings, density distributions and light cones
Andrzej Krasinski

[arXiv:1407.2612](#)

The Vast Polar Structure of the Milky Way Attains New Members
Marcel S. Pawłowski, Pavel Kroupa

[arXiv:1407.1632](#)

Cosmic slowing down of acceleration for several dark energy parametrizations
Juan Magaña, Víctor H. Cárdenas, V. Motta

[arXiv:1407.1342](#)

A coarse grained perturbation theory for the Large Scale Structure, with cosmology and time independence in the UV
Alessandro Manzotti, Marco Peloso, Massimo Pietroni, Matteo Viel, Francisco Villaescusa-Navarro

[arXiv:1406.4860](#)

Galaxies as simple dynamical systems: observational data disfavor dark matter and stochastic star formation
Pavel Kroupa

[arXiv:1406.3712](#)

The first law of thermodynamics as the origin of the expansion law of the universe
Fatemeh Lalehgani Dezaki, Behrouz Mirza

[arXiv:1406.2036](#)

Classical and quantum cosmology with York Time
Philipp Roser, Antony Valentini

[arXiv:1406.1658](#)

The Apparent Universe
Pierre Binétruy, Alexis Helou

[arXiv:1406.0563](#)

Thermodynamics and Lemaitre-Tolman-Bondi void models
Priti Mishra, Tejinder P. Singh

[arXiv:1406.0537](#)

Disk stability under MONDian gravity
M. A. Jiménez, X. Hernandez

[arXiv:1405.7911](#)

Observational tests of backreaction with recent data
Matteo Chiesa, Davide Maino, Elisabetta Majerotto

[arXiv:1405.7006](#)

Einstein's signature in cosmological large-scale structure
Marco Bruni, Juan Carlos Hidalgo, David Wands

[arXiv:1405.5252](#)

Demonstration of the spike phenomenon using the LTB models
Alan Coley, Woei Chet Lim

[arXiv:1405.4595](#)

Testing Isotropy in the Local Universe
Stephen Appleby, Arman Shafieloo

[arXiv:1405.3522](#)

The Jubilee ISW Project II: observed and simulated imprints of voids and superclusters on the cosmic microwave background
S. Hotchkiss, S. Nadathur, S. Gottlöber, I. T. Iliev, A. Knebe, W. A. Watson, G. Yepes

[arXiv:1405.2724](#)

Constraints on Dark Energy from New Observations including Pan-STARRS
Wei Zheng, Si-Yu Li, Hong Li, Jun-Qing Xia, Mingzhe Li, Tan Lu

[arXiv:1405.2620](#)

Discovery of a Very Large Structure at $z=3.78$
Kyoung-Soo Lee, Arjun Dey, Sungryong Hong, Naveen Reddy, Christian Wilson, Buell T. Jannuzi, Hanae Inami, Anthony H. Gonzalez

[arXiv:1404.5618](#)

A measurement of the Alcock-Paczynski test using cosmic voids in the SDSS
P. M. Sutter, Alice Pisani, Benjamin D. Wandelt

[arXiv:1404.5313](#)

Too Big to Fail in the Local Group
Shea Garrison-Kimmel, Michael Boylan-Kolchin, James S. Bullock, Evan N. Kirby

[arXiv:1404.3799](#)

The 6dF Galaxy Velocity Survey: Cosmological constraints from the velocity power spectrum
Andrew Johnson, Chris Blake, Jun Koda et al

[arXiv:1404.1899](#)

Fingerprints of Galactic Loop I on the Cosmic Microwave Background
Hao Liu, Philipp Mertsch, Subir Sarkar

[arXiv:1403.7661](#)

Conserved Quantities in Lemaitre-Tolman-Bondi Cosmology
Alexander Leithes, Karim A. Malik

arXiv:1403.5499 [Phys. Rev. Lett. 112, 251302 (2014)]

A Universal Density Profile for Cosmic Voids
Nico Hamaus, P. M. Sutter, Benjamin D. Wandelt

arXiv:1403.2389

A thousand shadows of Andromeda: rotating planes of satellites in the Millennium-II cosmological simulation
Rodrigo A. Ibata, Neil G. Ibata, Geraint F. Lewis, Nicolas F. Martin, Anthony Conn, Pascal Elahi, Veronica Arias, Nuwanthika Fernando

arXiv:1402.3167

Dependence on supernovae light-curve processing in void models
Gabriel R. Bengochea, Maria E. De Rossi

arXiv:1401.4469

A cosmic web filament revealed in Lyman-alpha emission around a luminous high-redshift quasar
Sebastiano Cantalupo, Fabrizio Arrigoni-Battaia, J. Xavier Prochaska, Joseph F. Hennawi, Piero Madau

arXiv:1401.3694

Cosmology with Doppler Lensing
David J. Bacon, Sambatra Andrianomena, Chris Clarkson, Krzysztof Bolejko, Roy Maartens

arXiv:1401.3317

The Data Release of the Sloan Digital Sky Survey-II Supernova Survey
M. Sako et al

arXiv:1401.2941

Graviton self-interactions and the cosmological constant
Carlos Barceló, Raúl Carballo-Rubio, Luis J. Garay

arXiv:1401.0595

Confronting the concordance model of cosmology with Planck data
Dhiraj Kumar Hazra, Arman Shafieloo

arXiv:1312.6769

Infall of nearby galaxies into the Virgo cluster as traced with HST
Igor. D. Karachentsev, R. Brent Tully, Po-Feng Wu, Edward J. Shaya, Andrew E. Dolphin

arXiv:1312.3638

Newton to Einstein - dust to dust
Michael Kopp, Cora Uhlemann, Thomas Haug

arXiv:1312.3415

Testing Local Anisotropy Using the Method of Smoothed Residuals I - Methodology
Stephen Appleby, Arman Shafieloo

arXiv:1311.6541

Classical Machian Resolution of the Spacetime Reconstruction Problems
Edward Anderson, Flavio Mercati

arXiv:1311.1767

Quasar-Lyman Forest Cross-Correlation from BOSS DR11 : Baryon Acoustic Oscillations
A. Font-Ribera et al [BOSS collaboration]

arXiv:1310.6801

Reconciliation of MOND and Dark Matter theory
Man Ho Chan

arXiv:1310.6744

Weak lensing analysis of SZ-selected clusters of galaxies from the SPT and Planck surveys
D. Gruen, S. Seitz, R. Kosyra, F. Brimiouille, J. Koppenhoefer, C.-H. Lee, R. Bender, A. Riffeser, T. Eichner, T. Weidinger, M. Bierschenk

arXiv:1310.6095

A Rotating Black Hole Solution for Shape Dynamics
Henrique Gomes, Gabriel Herczeg

arXiv:1310.5167

A Gravitational Origin of the Arrows of Time
Julian Barbour, Tim Koslowski, and Flavio Mercati

arXiv:1310.3831

Lack of large-angle TT correlations persists in WMAP and Planck
Craig J. Copi, Dragan Huterer, Dominik J. Schwarz, Glenn D. Starkman

arXiv:1310.3828

Cosmological Constraints from Measurements of Type Ia Supernovae discovered during the first 1.5 years of the Pan-STARRS1 Survey
A. Rest et al

[arXiv:1309.5305](#)

Kinematic Morphology of Large-scale Structure: Evolution from Potential to Rotational Flow
Xin Wang, Alex Szalay, Miguel A. Aragon-Calvo, Mark C. Neyrinck, Gregory L. Eyink

[arXiv:1309.4454](#)

Spectral Distortion in a Radially Inhomogeneous Cosmology
R. R. Caldwell, N. A. Maksimova

[arXiv:1309.2876](#) [JCAP 11 (2013) 010]

Exact Evolution of Discrete Relativistic Cosmological Models
Timothy Clifton, Daniele Gregoris, Kjell Rosquist, Reza Tavakol

[arXiv:1309.2285](#)

The effect of aberration on partial-sky measurements of the cosmic microwave background temperature power spectrum
Donghui Jeong, Jens Chluba, Liang Dai, Marc Kamionkowski, Xin Wang

[arXiv:1309.2045](#)

First measurement of gravitational lensing by cosmic voids in SDSS
Peter Melchior, P. M. Sutter, Erin S. Sheldon, Elisabeth Krause, Benjamin D. Wandelt

[arXiv:1308.6731](#)

Average expansion rate and light propagation in a cosmological Tardis spacetime
Mikko Lavinto, Syksy Rasanen and Sebastian J. Szybka

[arXiv:1308.6524](#)

General Relativistic N-body simulations in the weak field limit
Julian Adamek, David Daverio, Ruth Durrer and Martin Kunz

[arXiv:1308.5743](#)

On de-Sitter Geometry in Cosmic Void Statistics
Gary W. Gibbons, Marcus C. Werner, Naoki Yoshida, Sunmyon Chon

[arXiv:1308.5072](#)

On the physical effects of consistent cosmological averaging
Iain A. Brown, Alan A. Coley, D. Leigh Herman, Joey Latta

[arXiv:1308.4935](#) [JCAP 11 (2013) 019]

An exact Jacobi map in the geodesic light-cone gauge
G. Fanizza, M. Gasperini, G. Marozzi, G. Veneziano

[arXiv:1308.1433](#)

Visualizing Spacetime Curvature via Gradient Flows III: The Kerr Metric and the Transitional Values of the Spin Parameter
Majd Abdelqader, Kayll Lake

[arXiv:1307.6382](#)

Multi-scale gravity and cosmology
Gianluca Calcagni

[arXiv:1307.6536](#)

Viscous dark matter growth in (neo-)Newtonian cosmology
H. Velten, D.J. Schwarz, J.C. Fabris, W. Zimdahl

[arXiv:1307.6281](#)

On the Cosmological Newtonian limit
Todd A. Oliynyk

[arXiv:1307.5830](#)

Detection of B-mode Polarization in the Cosmic Microwave Background with Data from the South Pole Telescope
D. Hanson et al

[arXiv:1307.4405](#)

The Local Hole revealed by galaxy counts and redshifts
J.R. Whitbourn, T. Shanks

[arXiv:1307.4371](#)

Review on exact and perturbative deformations of the Einstein-Straus model: uniqueness and rigidity results
Marc Mars, Filipe C. Mena, Ral Vera

[arXiv:1307.3705](#)

On the nature of dark matter in the Coma Cluster
Konstantin Zioutas, Dieter Hoffmann, Konrad Dennerl, Thomas Papaevangelou

[arXiv:1307.2377](#)

How real-time cosmology can distinguish between different anisotropic models
Luca Amendola, Ole Eggers Bjaelde, Wessel Valkenburg, Yvonne Y. Y. Wong

[arXiv:1307.1947](#)

Dipole anisotropy in flux density and source count distribution in radio NVSS data
Rahul Kothari, Abhishek Naskar, Prabhakar Tiwari, Sharvari Nadkarni-Ghosh, Pankaj Jain

[arXiv:1307.1916](#)

Minisuperspace model of Machian Resolution of Problem of Time. I. Isotropic Case
Edward Anderson

[arXiv:1307.1923](#)

Kendall's Shape Statistics as a Classical Realization of Barbour-type Timeless Records Theory approach to Quantum Gravity
Edward Anderson

[arXiv:1307.1848](#)

Local Conformal Symmetry in Physics and Cosmology
Itzhak Bars, Paul Steinhardt, Neil Turok

[arXiv:1307.1097](#)

A construction principle for ADM-type theories in maximal slicing gauge
Henrique Gomes

[arXiv:1307.1039](#)

An Optimal Choice of Reference for the Quasi-Local Gravitational Energy and Angular Momentum
Gang Sun, Chiang-Mei Chen, Jian-Liang Liu, James M. Nester

[arXiv:1306.6766](#)

Planck and the local Universe: quantifying the tension
Licia Verde, Pavlos Protopapas, Raul Jimenez

[arXiv:1306.2138](#)

Quasi-Local Conserved Charges in Covariant Theory of Gravity
Wontae Kim, Shailesh Kulkarni, Sang-Heon Yi

[arXiv:1306.0091](#)

Cosmography of the Local Universe
Helene M. Courtois, Daniel Pomaredé, R. Brent Tully, Yehuda Hoffman, Denis Courtois

[arXiv:1305.7139](#)

Seeing patterns in noise: Gigaparsec-scale 'structures' that do not violate homogeneity
Seshadri Nadathur

[arXiv:1305.7139](#)

Violation of the FRW consistency condition as a signature of backreaction
Celine Boehm, Syksy Rasanen

[arXiv:1305.5571](#)

Void Statistics and Hierarchical Scaling in the Halo Model
J.N. Fry, S. Colombi

[arXiv:1305.4415](#)

Dark energy with rigid voids versus relativistic voids alone
Boudewijn F. Roukema

[arXiv:1305.4134](#)

Is there a violation of the Copernican principle in radio sky?
Ashok K. Singal

[arXiv:1305.3153](#)

Dimensional reduction in the sky
Giovanni Amelino-Camelia, Michele Arzano, Giulia Gubitosi, Joao Magueijo

[arXiv:1305.1487](#)

Shape Dynamics and Effective Field Theory
Tim Koslowski

[arXiv:1305.0310](#)

A Birkhoff theorem for Shape Dynamics
Henrique Gomes

[arXiv:1304.3506](#)

CMB Aberration and Doppler Effects as a Source of Hemispherical Asymmetries
Alessio Notari, Miguel Quartín and Riccardo Catena

[arXiv:1304.2884](#)

Evidence for a ~300 Mpc Scale Local Under-density in the Distribution of Galaxies
Ryan C. Keenan, Amy J. Barger, Lennox L. Cowie

[arXiv:1304.2318](#)

Examples of backreaction of small scale inhomogeneities in cosmology
Stephen R. Green, Robert M. Wald

[arXiv:1303.7139](#)

Symmetry and Evolution in Quantum Gravity
Sean Gryb and Karim Thebault

[arXiv:1303.6193](#)

Lagrangian theory of structure formation in relativistic cosmology II: average properties of a generic evolution model
Thomas Buchert, Charly Nayet and Alexander Wiegand

[arXiv:1303.5371](#)

Directional dependence of LCDM cosmological parameters
M. Axelsson, Y. Fantaye, F. K. Hansen, A. J. Banday, H. K. Eriksen, K. M. Gorski

[arXiv:1303.4786](#)

Large-Angle CMB Suppression and Polarisation Predictions
C.J. Copi, D. Huterer, D.J. Schwarz, G.D. Starkman

[arXiv:1303.4516](#)

Asymptotic analysis of perturbed dust cosmologies to second order
Claes Uggle, John Wainwright

[arXiv:1303.4531](#)

A toy model to test the accuracy of cosmological N-body simulations
Francesco Sylos Labini

[arXiv:1303.4886](#)

The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements and the strong power of normalized growth rate on constraining dark energy
Chia-Hsun Chuang, Francisco Prada, Antonio J. Cuesta, Daniel J. Eisenstein, Eyal Kazin, Nikhil Padmanabhan, Ariel G. Sanchez, Xiaoying Xu, Florian Beutler, Marc Manera, David J Schlegel, Donald P. Schneider, David H. Weinberg, Jon Brinkmann, Joel R. Brownstein, Daniel Thomas

[arXiv:1303.2690](#)

The kinematics of the Local Group in a cosmological context
Jaime E. Forero-Romero, Yehuda Hoffman, Sebastian Bustamante, Stefan Gottloeber, Gustavo Yepes

[arXiv:1303.1871](#)

The vast thin plane of M31 co-rotating dwarfs: an additional fossil signature of the M31 merger and of its considerable impact in the whole Local Group
François Hammer, Yanbin Yang, Sylvain Fouquet, Marcel S. Pawlowski, Pavel Kroupa, Mathieu Puech, Hector Flores, Jianling Wang

[arXiv:1303.1123](#) [Phys. Rev. D 89, 064033 (2014)]

Intrinsic energy of Lemaître-Tolman-Bondi models and cosmological implications
Ramon Lapiedra and Juan Antonio Morales-Lladosa

[arXiv:1302.3031](#) [Phys. Rev. Lett. 111, 023601 (2013)]

Attractive Optical Forces from Blackbody Radiation
Matthias Sonnleitner, Monika Ritsch-Marte, Helmut Ritsch

[arXiv:1301.5321](#)

Do jets precess... or even move at all?
Chris Nixon, Andrew King

[arXiv:1301.3459](#)

Measurement of Baryon Acoustic Oscillations in the Lyman-alpha Forest
Fluctuations in BOSS Data Release 9
A. Slosar, et al

[arXiv:1212.4832](#)

Multifractal analysis and lacunarity spectrum of the galaxies of the ninth Sloan Digital Sky Survey (SDSS) data release
Cesar A. Chacon-Cardona, Rigoberto A. Casas-Miranda

[arXiv:1212.17556](#)

Poincare invariance and asymptotic flatness in Shape Dynamics
Henrique Gomes

[arXiv:1212.3691](#)

Constraints on anisotropic cosmic expansion from supernovae
Benedict Kalus, Dominik J. Schwarz, Marina Seikel, Alexander Wiegand

[arXiv:1211.6515](#)

SZ effect or Not? - Detecting most galaxy clusters' main foreground effect
WeiKe Xiao, Chen Chen, Bin Zhang, Yongfeng Wu, Mi Dai

[arXiv:1211.4585](#)

Toward a Direct Measurement of the Cosmic Acceleration
Jeremy Darling

[arXiv:1211.4480](#)

Cosmology with Photometrically-Classified Type Ia Supernovae from the SDSS-II Supernova Survey
Heather Campbell, et al

[arXiv:1211.4345](#)

Cosmic Microwave Background filters and the Dark-Flow measurement
F. Atrio-Barandela, A. Kashlinsky, H. Ebeling, D. Kocevski

[arXiv:1211.3130](#)

Removing BAO-peak Shifts with Local Density Transforms
Nuala McCullagh, Mark C. Neyrinck, István Szapudi, Alexander S. Szalay

[arXiv:1211.1278](#)

Universal properties of violently relaxed gravitational structures
Francesco Sylos Labini

[arXiv:1211.1246](#)

Precision cosmology with the 2MASS clustering dipole
Maciej Bilicki, Michal Chodorowski, Wojciech Hellwing, Thomas Jarrett, Gary Mamon

[arXiv:1211.0802](#)

Title: Backreaction: Gauge and Frame Dependences
Authors: Iain A. Brown, Joey Latta and Alan Coley

[arXiv:1209.2125](#)

The significance of the integrated Sachs-Wolfe effect revisited
Tommaso Giannantonio, Robert Crittenden, Robert Nichol, Ashley J. Ross

[arXiv:1207.5493](#)

Visualizing Spacetime Curvature via Gradient Flows I: Introduction
Kayll Lake

[arXiv:1207.2035](#) Phys. Rev. D 86, 063527 (2012) [10 pages]

Title: Newtonian versus relativistic cosmology
Authors: Samuel F. Flender and Dominik J. Schwarz

[arXiv:1207.3873](#) Phys. Rev. D 86, 064004 (2012) [21 pages]

Title: Celestial ephemerides in an expanding universe
Author: Sergei M. Kopeikin

[arXiv:1207.0809](#)

Title: A filament of dark matter between two clusters of galaxies
Authors: Jorg P. Dietrich, Norbert Werner, Douglas Clowe, Alexis Finoguenov, Tom Kitching, Lance Miller and Aurora Simionescu

[arXiv:1206.6981](#)

Title: Can residuals of the Solar system foreground explain low multipole anomalies of the CMB ?
Authors: M. Hansen, J. Kim, A. M. Frejsel, S. Ramazanov, P. Naselsky, W. Zhao and C. Burigana

[arXiv:1206.4055](#)

Is there correlation between Fine Structure and Dark Energy Cosmic Dipoles?
Antonio Mariano, Leandros Perivolaropoulos