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 Falick, Jie Wang

arXiv:1610.05943
Two fundamental cosmological laws of the Local Universe
Yuri V. Baryshev

arXiv:1610.03351
A general relativistic signature in the galaxy bispectrum
Obinna Umeh, Sheean Jolicoeur, 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
Huu Yan Ip, Fabian Schmidt

arXiv:1610.00037
Imprint of DES super-structures on the Cosmic Microwave Background
A. Kovács, et al (DES collaboration)

arXiv:1610.00015
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 Stefian et al

arXiv:1607.06997
Detection of Baryon Acoustic Oscillation Features in the Large-Scale 3-Point Correlation Function of SDSS BOSS DR12 CMASS Galaxies
Z Stefian et al

arXiv:1607.05617
The trouble with H0
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 Paczyski 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 Kitaara, Sergio A. Rodríguez-Torres, Matthew D. Olmstead

arXiv:1605.08650
Isentropic Spheres in General Relativity
Mayer Humi, John Roumas
Global and Local Horizon Quantum Mechanics
R. Casadio, A. Giugno, A. Giusti

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

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

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

Theoretical Aspects of Cosmic Acceleration
Mark Trodden

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

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

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

On the time delay between ultrarelativistic particles
Pierre Fleury

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

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

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

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

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 Neilson

Stochastic Einstein equations with fluctuating volume
Vladimir Dzhunushaliev and Hernando Quevedo

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

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

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. Koksbang, S. Hannestad

arXiv:1512.05624
Beyond 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-Marín, 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
Evidence for the kinematic Sunyaev-Zedovich effect with ACTPol and velocity reconstruction from BOSS
E. Schaan et al

Constraining the local variance of H0 from directional analyses
C.A.P. Bengaly

Is the Hawking quasilocal energy "Newtonian"?
Valerio Faraoni

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

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.

Blueshifting may explain the gamma ray bursts
Andrzej Krasiski

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

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

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

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

Revisiting the NVSS number count dipole
Prabhakar Tiwari, Adi Nusser

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

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

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

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

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

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

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

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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 Kahnashvili, Hassan Firouzjahi

arXiv:1506.04587
The Luminous Convolution Model for spiral galaxy rotation curves
S. Cisneros, J.G. O’Brien, N.S. Oblath, J.A. Formaggio
A universal velocity dispersion profile for pressure supported systems: evidence for MONDian gravity across 12 orders of magnitude in mass

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

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

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

Spectral distortions of the CMB dipole

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

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

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

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

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

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

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

On Separate Universes
Liang Dai, Enrico Pajer, Fabian Schmidt

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

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

Conformal Fermi Coordinates
Liang Dai, Enrico Pajer and Fabian Schmidt

Hypothesis on the Nature of Time
D.N. Coumbe

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
MikolajKorzynski

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

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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-Baranda, 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
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<td>Galaxy Groups</td>
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<td>Calibrating the cosmic distance scale ladder: the role of the sound horizon scale and the local expansion rate as distance anchors</td>
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<td>1410.6480</td>
<td>Gauge-invariant average of Einstein equations for finite volumes</td>
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<td>Two new methods to detect cosmic voids without density measurements</td>
<td>Andrii Elyiv, Federico Marulli, Giorgia Pollina, Marco Baldi, Enzo Branchini, Andrea Cimatti, Lauro Moscardini</td>
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<td>1410.2172</td>
<td>The extended ROSAT-ESO Flux-Limited X-ray Galaxy Cluster Survey (REFLEX II) V. Exploring a local underdensity in the Southern Sky</td>
<td>Hans Boehringer, Gayoung Chon, Martyn Bristow, Chris A. Collins</td>
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<td>Standard rulers, candles, and clocks from the low-redshift Universe</td>
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<td>Blueshifts in the Lemaître - Tolman models</td>
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<td>Asymptotics with a positive cosmological constant: I. Basic framework</td>
<td>Abhay Ashtekar, Beatrice Bong, Aruna Kesavan</td>
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<td>Testing cosmic geometry without dynamic distortions using voids</td>
<td>Nico Hamaus, P. M. Sutter, Guilhem Lavaux, Benjamin D. Wandelt</td>
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<td>Back-reaction of the Hawking radiation flux on a gravitationally collapsing star II: Fireworks instead of firewalls</td>
<td>Laura Mersini-Houghton, Harald P. Pfeiffer</td>
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<td>1409.0880</td>
<td>The Laniakea supercluster of galaxies</td>
<td>R. Brent Tully, Helene Courtois, Yehuda Hoffman, Daniel Pomarède</td>
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<td>1408.5792</td>
<td>On the significance of power asymmetries in Planck CMB data at all scales</td>
<td>Miguel Quartin, Alessio Notari</td>
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<td>1408.5435</td>
<td>Tests of streaming models for redshift-space distortions</td>
<td>Martin White, Beth Reid, Chia-Hsun Chuang, Jeremy L. Tinker, Cameron K. McBride, Francisco Prada, Lado Samushia</td>
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<tr>
<td>1408.5137</td>
<td>Proper-Time Hypersurface of Non-Relativistic Matter Flows: Galaxy Bias in General Relativity</td>
<td>Jaiyul Yoo</td>
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<td>1408.4720</td>
<td>Can a supervoid explain the Cold Spot?</td>
<td>Seshadri Nadathur, Mikko Lavinto, Shaun Hotchkiss and Syksy Rasanen</td>
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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
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