Recently Discussed Papers at Journal Club

30 November 2015

arXiv: 1511.05124  [introduced by Lawrence]
Title: Effects of nonlinear inhomogeneity on the cosmic expansion with numerical relativity
Authors: Eloisa Bentivegna, Marco Bruni

Title: Generalized self-veto probability for atmospheric neutrinos
Authors: Thomas K. Gaisser, Kyle Jero, Albrecht Karle, and Jakob van Sante

23 November 2015

arXiv: 1504.00227  [introduced by Kiran]
Title: The gamma-ray and neutrino sky: A consistent picture of Fermi-LAT, Milagro, and IceCube results
Authors: Daniele Gaggero, Dario Grasso, Antonio Marinelli, Alfredo Urbano, Mauro Valli

16 November 2015

arXiv: 1511.02938  [introduced by Brendan]
Title: Fermi-LAT Observations of High-Energy Gamma-Ray Emission Toward the Galactic Center
Authors: The Fermi-LAT Collaboration

Title: The deceleration parameter in 'tilted' Friedmann universes
Authors: Christos G. Tsagas, Miltiadis I. Kaditzoglou

2 November 2015

arXiv: 1510.06424  [introduced by Dylan]
Title: A Bright Gamma-ray Galactic Center Excess and Dark Dwarfs: Strong Tension for Dark Matter Annihilation Despite Milky Way Halo Profile and Diffuse Emission Uncertainties
Authors: Kevork N. Abazajian, Ryan E. Keeley

Title: Turnaround radius in an accelerated universe with quasi-local mass
Authors: Valerio Faraoni, Marianne Lapierre-Léonard, Angus Prain

28 September 2015

arXiv: 1507.0659  [introduced by Lawrence]
Title: CMB seen through random Swiss Cheese
Authors: Mikko Lavinto, Syksy Rasanen

21 September 2015

arXiv:1411.4385  [introduced by Kiran]
Title: Status of High-Energy Neutrino Astronomy
Authors: Marek Kowalski

17 August 2015

Title: A generalized self-veto probability for atmospheric neutrinos
Authors: Thomas K. Gaisser, Kyle Jero, Albrecht Karle, Jakob van Santen

10 August 2015

arXiv:1506.04587  [introduced by Brendan]
Title: The Luminous Convolution Model for spiral galaxy rotation curves
Authors: S. Cisneros, J.G. O'Brien, N.S. Oblath, J.A. Formaggio

3 August 2015

arXiv:1506.05478  [introduced by Nezihe]
Title:  
Is the baryon acoustic oscillation peak a cosmological standard ruler?
Authors: Boudewijn F. Roukema, Thomas Buchert, Hirokazu Fuji, Jan J. Ostrowski
27 July 2015
arXiv:1502.01020  [introduced by Dylan]

Title:  
Search for Gamma-ray Emission from Dark Matter Annihilation in the Large Magellanic Cloud
Authors: Matthew R. Buckley, Eric Charles, Jennifer M. Gaskins, Alyson M. Brooks, Alex Drlica-Wagner, Pierrick Martin, Geng Zhao
13 July 2015
arXiv:1502.01762  [introduced by Lawrence]

Title:  
Kinematic Bias in Cosmological Distance Measurement
Authors: Nick Kaiser, Michael J. Hudson
29 June 2015

Wide ranging discussion on Hawking evaporation  [introduced by Hadleigh]
For a full list see top 14 papers at:  http://hadleighfrost.com/physics/
22 June 2015
arXiv:1504.03753  [introduced by Kiran]

Title:  
Measurement of the Atmospheric Electron Neutrino Spectrum with IceCube
Authors: IceCube Collaboration: M. G. Aartsen et al
15 June 2015
arXiv:1505.04649  [introduced by Yongzhuang]

Title:  
Gravity as the breakdown of conformal invariance
Authors: Giovanni Amelino-Camelia, Michele Arzano, Giulia Gubitosi, Joao Magueijo
8 June 2015

Title:  
Pulsars Cannot Account for the Inner Galaxy's GeV Excess
Authors: Dan Hooper, Ilias Cholis, Tim Linden, Jennifer Siegal-Gaskins, Tracy Slatyer
25 May 2015
arXiv:1504.04782  [introduced by Brendan]

Title:  
When Dark Matter interacts with Cosmic Rays or Interstellar Matter: A Morphological Study
Authors: Eric Carlson, Stefano Profumo
18 May 2015

Title:  
Atmospheric and Astrophysical Neutrinos above 1 TeV
Authors: IceCube Collaboration (M.G. Aartsen et al.)
11 May 2015
arXiv:1504.01676  [introduced by Nezihe]

Title:  
Cosmological ensemble and directional averages of observables
Authors: Camille Bonvin, Chris Clarkson, Ruth Durrer, Roy Maartens, Obinna Umeh
4 May 2015
arXiv:1504.05175  [introduced by Dylan]

Title:  
Secondary antiprotons as galactic dark matter probe
Authors: Carmelo Evoli, Daniele Gaggero, Dario Grasso
25 November 2014


Title:  
A search for dark matter annihilation in dwarf spheroidal galaxies with Pass 8 data
Authors: Brandon Anderson Fermi-LAT collaboration
Nezihe
Title: Gravitational Waves from Periodic Three-Body Systems
Authors: V. Dmitrašinovic, Milovan Suvakov, and Ana Hudomal
18 November 2014
Title: The Lagrangian for mass dimension one fermions
Authors: Cheng-Yang Lee
Title: Cosmic Ray Energy Spectrum from Measurements of Air Showers
Authors: Thomas K. Gaisser, Todor Stanev, Serap Tilav
11 November 2014
http://fermi.gsfc.nasa.gov/science/mtgs/symposia/2014/program/08_Murgia.pdf [introduced by Oscar]
Title: Observation of the high-energy gamma ray emission towards the galactic center
Authors: Simona Murgia, Troy Porter
http://fermi.gsfc.nasa.gov/science/mtgs/symposia/2014/program/ 17_Anderson.pdf [introduced by Oscar]
Title: A search for dark matter annihilation in dwarf spheroidal galaxies with Pass 8 data
Authors: Brandon Anderson Fermi-LAT collaboration
arXiv:1410.6675 [introduced by David]
Title: Local conformal symmetry: the missing component for space and time
Authors: Gerard ‘t Hooft
arXiv:1410.6675 [introduced by David]
Title: Back-reaction of the Hawking radiation flux on a gravitationally collapsing star II: Fireworks instead of firewalls
Authors: Laura Mersini-Houghton, Harald P. Pfeiffer
Title: Measuring High Energy Neutrino-Nucleon Cross Sections With Future Neutrino Telescopes
Authors: Dan Hooper
28 October 2014
arXiv:1410.6168 [introduced by Chris]
Title: Discovery of a new galactic center excess consistent with upscattered starlight
Authors: Kevork N. Abazajian, Nicolas Canac, Shunsaku Horiuchi, Manoj Kaplinghat, Anna Kwa
arXiv:1410.4248 [introduced by Nezihe]
Title: Towards black hole entropy in shape dynamics
Authors: Gabriel Herczeg, Vasudev Shyam
21 October 2014
arXiv:1410.3470 [introduced by Ahsan]
Title: Cosmic microwave background anisotropies in the timescape cosmology
Authors: M. Ahsan Nazer, David L. Wiltshire
arXiv:1310.0828 [introduced by Dylan]
Title: Dark Matter Constraints from Observations of 25 Milky Way Satellite Galaxies with the Fermi Large Area Telescope
Authors: M. Ackermann et al [Fermi-LAT Collaboration]
arXiv:1410.3470 [introduced by Ahsan]
Title: Cosmic microwave background anisotropies in the timescape cosmology
Authors: M. Ahsan Nazer, David L. Wiltshire
arXiv:1310.0828 [introduced by Dylan]
Title: Dark Matter Constraints from Observations of 25 Milky Way Satellite Galaxies with the Fermi Large Area Telescope
Authors: M. Ackermann et al [Fermi-LAT Collaboration]
14 October 2014
arXiv:1410.2242 [introduced by Oscar]
Title: A Comprehensive Search for Dark Matter Annihilation in Dwarf Galaxies
Authors: Alex Geringer-Sameth, Savvas M. Koushiappas, Matthew G. Walker

arXiv:1410.1687 [introduced by David]

Title: Can an inhomogeneous metric be detected with the baryonic acoustic oscillation peak?
Authors: Boudewijn F. Roukema, Thomas Buchert, Jan J. Ostrowski, Martin J. France

arXiv:1409.1572 [introduced by Chris]

Title: Improving the Sensitivity of Gamma-Ray Telescopes to Dark Matter Annihilation in Dwarf Spherical Galaxies
Authors: Eric Carlson, Dan Hooper, Tim Linden

7 October 2014

arXiv:1410.1678

Title: Cosmic-Ray Models of the Ridge-Like Excess of Gamma Rays in the Galactic Center
Authors: Oscar Macias, Roland Crocker, Chris Gordon, Stefano Profumo

30 September 2014

arXiv:1409.0395 [introduced by Nezihe]

Title: Discrete Newtonian Cosmology: Perturbations
Authors: George F. R. Ellis, Gary W. Gibbons

arXiv:1409.0042 [introduced by Oscar]

Title: Background model systematics for the Fermi GeV excess
Authors: Francesca Calore, Ilias Cholis, Christoph Weniger

23 September 2014

arXiv:1409.5738 [introduced by Chris]

Title: Planck intermediate results. XXX. The angular power spectrum of polarized dust emission at intermediate and high Galactic latitudes
Authors: R. Adam et al [Planck Collaboration]

Phys. Rev. Lett. 113, 121102 (2014) [introduced by Oscar]

Title: Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station
Authors: M Aguilar et al [AMS Collaboration]

16 September 2014

arXiv:1409.1573 [introduced by Oscar]

Title: Towards a Supersymmetric Description of the Fermi Galactic Center Excess
Author: Matthew Cahill-Rowley, Jamie Gainer, JoAnne Hewett, Tom Rizzo

arXiv:1409.0917 [introduced by Nezihe]

Title: Identification of a gravitational arrow of time
Author: Julian Barbour, Tim Koslowski, Flavio Mercati

arXiv:1408.6224 [introduced by Chris]

Title: A Critical Reevaluation of Radio Constraints on Annihilating Dark Matter
Author: Ilias Cholis, Dan Hooper, Tim Linden

9 September 2014

Title: Gauss-Bonnet correction to Holographic thermalization: two-point functions, circular Wilson loops and entanglement entropy
Authors: Yong-Zhuang Li, Shao-Feng Wu, Guo-Hong Yang

Title: Linear growth of entanglement entropy in holographic thermalization captured by horizon interiors and mutual information
Authors: Yong-Zhuang Li, Shao-Feng Wu, Yong-Qiang Wang, Guo-Hong Yang

26 August 2014

arXiv:1408.4388 [introduced by Oscar]

Title: Comment on the paper "Dark matter searches going bananas: the contribution of Potassium (and Chlorine) to the 3.5 keV line" by T. Jeltema and S. Profumo
Author: A. Boyarsky, J. Franse, D. Iakubovskyi, O. Ruchayskiy
arXiv: 1406.7369 [introduced by Chris]

Title: Parametrization of gamma-ray production cross-sections for pp interactions in a broad proton energy range from the kinematic threshold to PeV energies
Authors: Ervin Kafexhiu, Felix Aharonian, Andrew M. Taylor, Gabriela S. Vila

19 August 2014

arXiv:1408.3989 [introduced by Hadleigh]

Title: Observing Shape in Spacetime
Author: Sean Gryb

arXiv: 1407.4665 [introduced by Oscar]

Title: Is there a "too big to fail" problem in the field?
Authors: Emmanouil Papastergis, Riccardo Giovanelli, Martha P. Haynes, Francesco Shankar


Title: The Cosmic Ray Population of the Galactic Central Molecular Zone
Authors: Tova M. Yoast-Hull, J.S. Gallagher, Ellen G. Zweibel

12 August 2014

arXiv:1408.1944 [introduced by Hadleigh]

Title: Does it Make Sense to Speak of Self-Locating Uncertainty in the Universal Wave Function? Remarks on Sebens and Carroll
Author: Adrian Kent

arXiv: 1408.1699 [introduced by Oscar]

Title: Dark matter searches going bananas: the contribution of Potassium (and Chlorine) to the 3.5 keV line
Authors: Tesla E. Jeltema, Stefano Profumo

arXiv:1407.1944 [introduced by Nezihe]

Title: An extension of cosmological dynamics with York time
Author: Philipp Roser

5 August 2014

arXiv:1407.5625 [introduced by Oscar]

Title: Challenges in Explaining the Galactic Center Gamma-Ray Excess with Millisecond Pulsars
Author: Ilias Cholis, Dan Hooper, Tim Linden

29 July 2014

arXiv:1407.3384 [introduced by Hadleigh]

Title: Why do we remember the past and not the future? The 'time oriented coarse graining' hypothesis
Author: Carlo Rovelli

CMS PAS HIG-14-005 [introduced by Oscar]

Title: Search for lepton flavor violating decays of the Higgs boson
Authors: CMS Collaboration

arXiv:1405.1566 [introduced by Ahsan]

Title: Detection of a Supervoid Aligned with the Cold Spot of the Cosmic Microwave Background
Authors: István Szapudi et al

arXiv:1312.1615 [introduced by Hadleigh]

Title: Action principle for cellular automata and the linearity of quantum mechanics
Authors: Hans-Thomas Elze

3 June 2014

arXiv:1406.0283 [introduced by Ahsan]

Title: Magnetic Fields in the Milky Way
Authors: Marijke Haverkorn

arXiv:1405.7860 [introduced by Hadleigh]
Title: What is the distance to the CMB? How relativistic corrections remove the tension with local H0 measurements
Authors: Chris Clarkson, Obinna Umeh, Roy Maartens, Ruth Durrer


Title: Search for Invisible Decays of a Higgs Boson Produced in Association with a Z Boson in ATLAS
Authors: G. Aad et al. (ATLAS Collaboration)

27 May 2014

arXiv:1405.5535 [introduced by Nezihe]

Title: What drives the time evolution of the spacetime geometry?
Author: T. Padmanabhan

arXiv:1405.4484 [introduced by Oscar]

Title: The detection of a cosmic-ray electron-positron anisotropy is a sufficient (but not necessary) condition to discard a Dark Matter origin for the anomalous positron fraction
Author: Stefano Profumo

20 May 2014

https://wbitp.caltech.edu/workshops [introduced by Chris]

Title: BICEP2 Results: A View from the Outside
Author: M. Zaldarriaga

arXiv:1405.4137 [introduced by Hadleigh]

Title: Prospects of detecting spacetime torsion
Authors: Dirk Puetzfeld, Yuri N. Obukhov

arXiv:1405.4011 [introduced by Hadleigh]

Title: Cosmic coincidence or graviton mass?
Author: Saurya Das

arXiv:1405.3915 [introduced by Hadleigh]

Title: How the quantum emerges from gravity
Authors: Anushrut Sharma, Tejinder P. Singh

arXiv:1405.3771 [introduced by Hadleigh]

Title: Matter may matter
Authors: Zahra Haghani, Tiberiu Harko, Hamid Reza Sepangi, Shahab Shahidi

arXiv:1405.1030 [introduced by Oscar]

Title: Searching for Dark Matter Annihilation in the Smith High-Velocity Cloud
Authors: Alex Drlica-Wagner, German A. Gomez-Vargas, John W. Hewitt, Tim Linden, Luigi Tibaldo

13 May 2014

arXiv:1405.1031 [introduced by Oscar]

Title: Detecting Dark Matter with Imploing Pulsars in the Galactic Center
Authors: Joseph Bramante, Tim Linden

arXiv:1404.2185 [introduced by Nezihe]

Title: Light propagation in the averaged universe
Authors: Samae Bagheri, Dominik J Schwarz

arXiv:1402.0376 [introduced by David]

Title: Impact of local structure on the cosmic radio dipole
Authors: Matthias Rubart, David Bacon, Dominik J Schwarz

6 May 2014

arXiv:1405.0298 [introduced by Chris]

Title: De Sitter Space Without Quantum Fluctuations
Authors: Kimberly K. Boddy, Sean M. Carroll, Jason Pollack

arXiv:1404.7546 [introduced by Oscar]
Title: What could we learn from a sharply falling positron fraction?
Authors: Timur Delahaye, Kumiko Kotera, Joseph Silk

29 April 2014

arXiv:1404.1801 [introduced by David]
Title: Baryon Acoustic Oscillations in the Ly forest of BOSS DR11 quasars
Authors: T. Debulac et al [BOSS collaboration]

15 April 2014

arXiv:1404.2318 [introduced by Chris]
Title: Millisecond pulsar interpretation of the Galactic center gamma-ray excess
Authors: Qiang Yuan, Bing Zhang

arXiv:1404.1455 [introduced by Oscar]
Title: First Axion Results from the XENON100 Experiment
Authors: E. Aprile et al [XENON Collaboration]

8 April 2014

arXiv:1402.2976 [introduced by Nezihe]
Title: On the universality of void density profiles
Authors: E. Ricciardelll, V. Quilis, J. Varela

1 April 2014

arXiv:1403.5372 [introduced by Oscar]
Title: Inferred cosmic-ray spectrum from Fermi-LAT -ray observations of the Earth's limb
Authors: M. Ackermann et al [Fermi-LAT Collaboration]

arXiv:1402.3123 [introduced by David]
Title: Swiss-cheese models and the Dyer-Roeder approximation
Author: Pierre Fleury

arXiv:1312.5696 [introduced by Ahsan]
Title: Separate Constraints on Early and Late Cosmology
Authors: Benjamin Audren

25 March 2014

arXiv:1403.5027 [introduced by Oscar]
Title: The Effective Hooperon
Authors: Alexandre Alves, Stefano Profumo, Farinaldo S. Queiroz, William Shepherd

arXiv:1403.4216 [introduced by Chris]
Title: Tensor Detection Severely Constrains Axion Dark Matter
Authors: David J. E. Marsh, Daniel Grin, Renee Hlozek, Pedro G. Ferreira

arXiv:1312.7304 [introduced by Dylan]
Title: Gamma rays and neutrinos from a cosmic ray source in the Galactic Center region
Authors: A.D. Supanitsky

18 March 2014

arXiv:1403.2301 [introduced by Chris]
Title: BICEP2 I: Detection Of B-mode Polarization at Degree Angular Scales
Authors: P.A.R. Ade et al - BICEP collaboration

11 March 2014

arXiv:1402.2301 [introduced by Oscar]
Title: Detection of An Unidentified Emission Line in the Stacked X-ray spectrum of Galaxy Clusters
Authors: Esra Bulbul, Maxim Markevitch, Adam Foster, Randall K. Smith, Michael Loewenstein, Scott W. Randall

arXiv:1312.1538 [introduced by Nezihe]
Title: Gravitational Energy, Local Holography and Non-equilibrium Thermodynamics
Authors: Laurent Freidel

4 March 2014

arXiv:1402.6703 [introduced by Oscar]

Title: The Characterization of the Gamma-Ray Signal from the Central Milky Way: A Compelling Case for Annihilating Dark Matter
Authors: Tansu Daylan, Douglas P. Finkbeiner, Dan Hooper, Tim Linden, Stephen K. N. Portillo, Nicholas L. Rodd, Tracy R. Slatyer

arXiv:1402.5429 [introduced by Nezihe]

Title: Evidence for a Lower Value for H0 from Cosmic Chronometers Data?
Authors: Vinicius C. Busti, Chris Clarkson, Marina Seikel

25 February 2014

arXiv:1401.1146 [introduced by Nezihe]

Title: Is the Universe Simpler than LCDM?
Authors: Matthew G. Walker, Abraham Loeb

arXiv:1312.1146 [introduced by Ahsan]

Title: A Tale of Two Redshifts
Authors: Bruce A. Bassett, Yabebal Fantaye, Renée Hložek, Cristiano Sabiu, Mal Smith

18 February 2014

arXiv:1402.2236 [introduced by David]

Title: Curvature vs Distances: testing the Copernican Principle
Authors: Domenico Sapone, Elisabetta Majerotto, Savvas Nesseris


Title: Viewpoint: Ups and Downs in the Search for Dark Matter
Author: Rafael F. Lang


Title: Detection of B-mode Polarization in the Cosmic Microwave Background with Data from the South Pole Telescope
Authors: D. Hanson et al [SPT collaboration]

11 February 2014


Title: Swings between rotation and accretion power in a binary millisecond pulsar
Authors: A. Papitto et al

arXiv:1212.6267 [introduced by Ahsan]

Title: Constraints on Cosmology from the Cosmic Microwave Background Power Spectrum of the 2500 deg^2 SPT-SZ Survey
Authors: Z. Hou et al [SPT collaboration]

4 February 2014

arXiv:1401.7973 [introduced by Chris Blake]

Title: The value of H_0 in the inhomogeneous Universe
Authors: Ido Ben-Dayan, Ruth Durrer, Giovanni Marozzi, Dominik J. Schwarz

arXiv:1401.6458 [introduced by Oscar]

Title: Extended gamma-ray emission from Coy Dark Matter
Authors: Celine Boehm, Matthew J. Dolan, Christopher McCabe, Michael Spannowsky, Chris J. Wallace

arXiv:1310.6810 [introduced by Ahsan]

Title: On the complementarity of galaxy clustering with cosmic shear and flux magnification
Authors: Christopher Duncan, Benjamin Joachimi, Alan Heavens, Catherine Heymans, Hendrik Hildebrandt

28 January 2014

arXiv:1401.0706 [introduced by Chris Blake]

Title: A clear and measurable signature of modified gravity in the galaxy velocity fields
Authors: Wojciech A. Hellwing, Alexandre Barreira, Carlos S. Frenk, Baojiu Li, Shaun Cole
Title: Using the topology of large-scale structure in the WiggleZ Dark Energy Survey as a cosmological standard ruler
Authors: Chris Blake, J. Berian James, Gregory B. Poole


Title: Parameterization of Gamma, e+/- and Neutrino Spectra Produced by p-p Interaction in Astronomical Environment
Authors: Tuneyoshi Kamae, Niklas Karlsson, Tsunefumi Mizuno, Toshinori Abe, Tatsumi Koi
21 January 2014

arXiv:1312.6671

Title: The Contribution of Cosmic Rays Interacting With Molecular Clouds to the Galactic Center Gamma-Ray Excess
Authors: Oscar Macias, Chris Gordon

arXiv:1312.4297

Title: Homothetic motions and Newtonian cosmology
Authors: Xavier Jaen, Alfred Molina

arXiv:1306.0955

Title: Directional dependence of CMB parity asymmetry
Author: W. Zhao

17 December 2013

arXiv:1312.3313

Title: Planck Data Reconsidered
Authors: David Spergel, Raphael Flauger, Renee Hlozek

arXiv:1312.2952

Title: Constraining the origin of the rising cosmic ray positron fraction with the boron-to-carbon ratio
Authors: Ilias Cholis, Dan Hooper

arXiv:1310.0526

Title: Weyl gravity as general relativity
Author: James T. Wheeler

3 December 2013

arXiv:1310.0828

Title: Dark Matter Constraints from Observations of 25 Milky Way Satellite Galaxies with the Fermi Large Area Telescope
Authors: Fermi-LAT Collaboration, M. Ackermann et al

arXiv:1305.1584

Title: Constraining the Galactic millisecond pulsar population using Fermi Large Area Telescope
Authors: Tristan Gregoire, Jürgen Knödlseder

26 November 2013

arXiv:1311.5241

Title: Evolution of linear perturbations in spherically symmetric dust models
Authors: Sean February, Julien Larena, Chris Clarkson, Denis Pollney

arXiv:1311.4991

Title: Supernova explosions in magnetized, primordial dark matter halos
Authors: D. Seifried, R. Banerjee, D. Schleicher

arXiv:1310.8214

Title: First results from the LUX dark matter experiment at the Sanford Underground Research Facility
Authors: LUX Collaboration, D.S. Akerib et al

19 November 2013

arXiv:1310.7632

Title: Gravitational entropies in LTB dust models
Authors: Roberto A Sussman, Julien Larena
arXiv:1305.1324 [introduced by Oscar]
Title: AMS02 results support the secondary origin of cosmic ray positrons
Authors: Kfir Blum, Boaz Katz, Eli Waxman

12 November 2013

Title: ISW effect as probe of features in the expansion history of the Universe
Authors: Santanu Das, Arman Shafieloo, Tarun Souradeep

Title: The high-energy, arcminute-scale galactic center gamma-ray source
Authors: M. Chernyakova, D. Malyshev, F.A. Aharonian, R.M. Crocker, D.I. Jones

5 November 2013

arXiv:1311.0054 [introduced by Nezihe]
Title: Relative information at the foundation of physics
Author: Carlo Rovelli

29 October 2013

arXiv:1308.2153 [introduced by Oscar]
Title: Supersymmetry with Light Dark Matter confronting the recent CDMS and LHC Results
Authors: Alexandre Arbe, Marco Battaglia, Farvah Mahmoud

15 October 2013

Title: Interacting Cosmic Rays with Molecular Clouds: A Bremsstrahlung Origin of Diffuse High Energy Emission from the Inner 2deg by 1deg of the Galactic Center
Authors: F. Yusef-Zadeh et al

In Proceedings of the International Conference: "Road to Reality with Roger Penrose" [introduced by Nezihe]
Title: Gravitational energy: a quasi-local, Hamiltonian approach
Authors: K. Grabowska, J. Kijowski

8 October 2013

arXiv:1310.0828 [introduced by Oscar]
Title: Dark Matter Constraints from Observations of 25 Milky Way Satellite Galaxies with the Fermi Large Area Telescope
Authors: Fermi-LAT Collaboration, M. Ackermann et al

arXiv:1309.5695 [introduced by Nezihe]
Title: Intermediate homogenization of the Universe and the problem of gravitational entropy
Authors: Krzysztof Bolejko, William R. Stoeger

1 October 2013

arXiv:1309.5960 [introduced by Oscar]
Title: Warm Dark Matter: The End is Nigh
Authors: Aurel Schneider, Donnino Anderhalden, Andrea Maccio, Juerg Diemand

24 September 2013

arXiv:1309.3847 [introduced by Nezihe]
Title: Alignments of galaxies within cosmic filaments from SDSS DR7
Authors: Youcai Zhang, Xiaohu Yang, Huiyuan Wang, Lei Wang, H. J. Mo, Frank C. van den Bosch

17 September 2013

arXiv:1309.0721 [introduced by Oscar]
Title: The Discovery of the Higgs Boson with the CMS Detector and its Implications for Supersymmetry and Cosmology
Author: W. de Boer (CMS Collaboration)

arXiv:1307.3937 [introduced by Nezihe]
arXiv:1306.3345 [introduced by Nezihe]
Title: A covariant action principle for dissipative fluid dynamics: From formalism to fundamental physics
Authors: N. Andersson, G. L. Comer

Title: The Higgs field as an inflaton
Author: Fedor Bezrukov

2 July 2013

arXiv:1306.5725 [introduced by Oscar]
Title: Dark Matter and Pulsar Model Constraints from Galactic Center Fermi-LAT Gamma Ray Observations
Authors: Chris Gordon, Oscar Macias

arXiv:1306.6772 [introduced by Chris]
Title: First Fermi-LAT Catalog of Sources Above 10 GeV
Authors: Fermi-LAT Collaboration

18 June 2013

arXiv:1306.3208 [introduced by Ahsan and David]
Title: Timescape cosmology with radiation fluid
Authors: James A.G. Duley, M. Ahsan Nazer, David L. Wiltshire

11 June 2013

arXiv:1306.0563 [introduced by Chris]
Title: Systematic Uncertainties In Constraining Dark Matter Annihilation From The Cosmic Microwave Background
Authors: Silvia Galli, Tracy R. Slatyer, Marcos Valdes, Fabio Iocco

Title: On a local mass dimension one Fermi field of spin one-half and the theoretical crevice that allows it
Author: Dharam Vir Ahluwalia

arXiv:1305.2466 [introduced by Oscar]
Title: Gravitational Waves from Gamma-Ray Pulsar Glitches
Authors: Elan Stopnitzky, Stefano Profumo

4 June 2013

arXiv:1304.7791 [introduced by Nezihe]
Title: Can all cosmological observations be accurately interpreted with a unique geometry?
Authors: Pierre Fleury, Helene Dupuy, Jean-Philippe Uzan

Title: A Dark-Disk Universe
Authors: JiJi Fan, Andrey Katz, Lisa Randall, Matthew Reece

28 May 2013

arXiv:1304.1566 [introduced by Ahsan]
Title: On negative mass
Authors: Jonathan Belletête, M. B. Paranjape

Title: Generalized Quantum Relativistic Kinematics: a Stability Point of View
Authors: C. Chryssomalakos, E. Okon

21 May 2013

arXiv:1303.3121 [reintroduced by Ahsan]
Title: Cosmic variance and the measurement of the local Hubble parameter
Authors: Valerio Marra, Luca Amendola, Ignacy Sawicki, and Wessel Valkenburg

arXiv:1304.5243 [introduced by Oscar]
Title: Non-thermal WIMPs as "Dark Radiation" in Light of ATACAMA, SPT, WMAP9 and Planck
Authors: Chris Kelso, Stefano Profumo, Farinaldo S. Queiroz

arXiv:1305.0830 [introduced by Chris]
Title: Pulsars Cannot Account for the Inner Galaxy's GeV Excess
Author: Dan Hooper, Ilias Cholis, Tim Linden, Jennifer Siegal-Gaskins, Tracy Slatyer

14 May 2013

Title: Goldstone Bosons as Fractional Cosmic Neutrinos
Author: Steven Weinberg
arXiv:1304.2785 [introduced by Nezihe]
Title: Inflationary paradigm in trouble after Planck2013
Authors: Anna Ijjas, Paul J. Steinhardt, and Abraham Loeb

7 May 2013

arXiv:???????? [introduced by Cheng-Yang]

arXiv:1304.5524 [introduced by Oscar]
Title: A Clustering Analysis of the Morphology of the 130 GeV Gamma-Ray Feature
Authors: Eric Carlson, Tim Linden, Stefano Profumo, Christoph Weniger

30 April 2013

arXiv:1304.5229 [introduced by Chris]
Title: Adiabatic and Isocurvature Perturbation Projections in Multi-Field Inflation
Authors: Chris Gordon, Paul M. Saffin

arXiv:1303.5612 [introduced by Nezihe]
Title: A Gravitational Entropy Proposal
Author: Timothy Clifton, George F. R. Ellis and Reza Tavakol

23 April 2013

Title: First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–350 GeV
Authors: AMS Collaboration: M. Aguilar et al

gr-qc/0701120 [JCAP06(2007)018] [introduced by Chen-Yang]
Title: A spinor theory of gravity and the cosmological framework
Author: M. Novello

16 April 2013

arXiv:1304.3706 [introduced by Oscar]
Title: Silicon Detector Results from the First Five-Tower Run of CDMS II
Authors: CDMS Collaboration: R. Agnese et al

arXiv:1303.4444 [introduced by Nezihe]
Title: Virialization-induced curvature as a physical explanation for dark energy
Author: Boudewijn F. Roukema, Jan J. Ostrowski, Thomas Buchert

9 April 2013

arXiv:1304.1270 [introduced by Chris]
Title: The CMB asymmetry from inflation
Author: David H. Lyth

arXiv:1304.0759 [introduced by Oscar]
Title: Dark matter in galaxies: the dark matter particle mass is about 2 keV
Authors: H. J. de Vega, N. G. Sanchez

arXiv:1303.6614 [introduced by David]
Title: On the Statistical Significance of the Bulk Flow Measured by the PLANCK Satellite
Author: F. Atrio-Barandela

arXiv:1303.5051 [introduced by David]
Title: On Preferred Axes in WMAP Cosmic Microwave Background Data after Subtraction of the Integrated Sachs-Wolfe Effects
Authors: A. Rassat, J.-L. Starck

9 March 2013

arXiv:1302.5076 [introduced by Chris]
Title: Planck 2013 results. XVI. Cosmological parameters
Authors: Planck Collaboration: P.A.R. Ade et al

arXiv:1302.5082 [introduced by Chris]
Title: Planck 2013 results. XXII. Constraints on inflation
Authors: Planck Collaboration: P.A.R. Ade et al

arXiv:1302.5083 [introduced by Chris]
Title: Planck 2013 results. XXIII. Isotropy and Statistics of the CMB
Authors: Planck Collaboration: P.A.R. Ade et al

arXiv:1302.5087 [introduced by Chris]
Title: Planck 2013 results. XXVII. Doppler boosting of the CMB: Eppur si muove
Authors: Planck Collaboration: P.A.R. Ade et al
arXiv:1303.5090 [introduced by David]
Title: Planck intermediate results. XIII. Constraints on peculiar velocities
Authors: Planck Collaboration: P.A.R. Ade et al

19 March 2013

arXiv:1302.1915 [introduced by Oscar]
Title: Gamma Rays from Cosmic-Ray Proton Scattering in AGN Jets: the Intra-Cluster Gas vastly outshines Dark Matter
Author: Stefano Profumo, Lorenzo Ubaldi, Mikhail Gorchtein

arXiv:1303.3121 [introduced by David]
Title: Cosmic variance and the measurement of the local Hubble parameter
Authors: Valerio Marra, Luca Amendola, Ignacy Sawicki, and Wessel Valkenburg

12 March 2013

arXiv:1302.2015 [introduced by Oscar]
Title: Search for a neutrino emission from the Fermi Bubbles with the ANTARES telescope
Author: Simone Biagi

arXiv:1302.6264 [introduced by Nezihe]
Title: The Solution to the Problem of Time in Shape Dynamics
Authors: Julian Barbour, Tim Koslowski, Flavio Mercati

5 March 2013

Title: Inflationary Dynamics with a Non-Abelian Gauge Field
Authors: Kei-ichi Maeda, Kei Yamamoto

arXiv:1302.4753 [introduced by David]
Title: Interpretation of the Hubble diagram in a non-homogeneous universe
Authors: Pierre Fleury Hélène Dupuy, Jean-Philippe Uzan

26 February 2013

arXiv:1302.4753 [introduced by Ahsan]
Title: Perturbed Recombination from Dark Matter Annihilation
Authors: Cora Dvorkin, Kfir Blum, Matias Zaldarriaga

19 February 2013

arXiv:1302.3226 [introduced by Ahsan]
Title: Solution to the cosmological constant problem
Authors: T. Padmanabhan, Hamsa Padmanabhan

arXiv:1301.3207 [introduced by Oscar]
Title: Detection of the Characteristic Pion-Decay Signature in Supernova Remnants
Authors: The Fermi-LAT collaboration: M. Ackermann et al

12 February 2013

arXiv:1301.3459 [introduced by Chris]
Title: Cosmological Parameters from Pre-Planck CMB Measurements
Authors: Erminia Calabrese et al

arXiv:???????? [introduced by Oscar]

arXiv:1301.1312 [introduced by Ahsan]
Title: The blackness of the cosmic microwave background spectrum as a probe of the distance-duality relation
Authors: George Ellis, Robert Poltis, Jean-Philippe Uzan, Amanda Weltman

5 February 2013

arXiv:1211.6256 [reintroduced by Roy]
Title: A structure in the early universe at z ~ 1.3 that exceeds the homogeneity scale of the R-W concordance cosmology
Authors: Roger G. Clowes, Kathryn A. Harris, Srinivasan Raghunathan, Luis E. Campusano, Ilona K. Soechting, Matthew J. Graham

arXiv:???????? [introduced by Chris]

Title: Antilensing: The Bright Side of Voids
Authors: Krzysztof Bolejko, Chris Clarkson, Roy Maartens, David Bacon, Nikolai Meures, and Emma Beynon

29 January 2013
arXiv:1206.4887 [introduced by Ahsan]
Title: Late time anisotropy as an imprint of cosmological backreaction
Authors: Giovanni Marozzi, Jean-Philippe Uzan

arXiv:???????? [introduced by Oscar]

arXiv:1301.5559 [introduced by David]
Title: Cosmic radio dipole from NVSS and WENSS
Authors: Matthias Rubart and Dominik J. Schwarz

22 January 2013

arXiv:1211.5160 [introduced by Nezihe]
Title: Interesting Evidence for a Low-Level Oscillation Superimposed on the Local Hubble Flow
Author: Morley B Bell

Title: A Vast Thin Plane of Co-rotating Dwarf Galaxies Orbiting the Andromeda Galaxy
Authors: Rodrigo A. Ibata, Geraint F. Lewis, et al

A few of the papers discussed in 2012:

arXiv:1211.6256 [introduced by David]
Title: A structure in the early universe at z ~ 1.3 that exceeds the homogeneity scale of the R-W concordance cosmology
Authors: Roger G. Clowes, Kathryn A. Harris, Srinivasan Raghunathan, Luis E. Campusano, Ilona K. Soechting, Matthew J. Graham

arXiv:1211.5275 [introduced by David]
Title: Excess ellipticity of hot and cold spots in the WMAP data?
Authors: Eirik Berntsen, Frode K. Hansen

arXiv:1211.2915 [introduced by Peter]
Title: Visualization of structures and cosmic flows in the Local Universe
Authors: Daniel Pomarede, Helene Courtois, R. Brent Tully

arXiv:1211.2616 [introduced by David]
Title: Baryon Acoustic Oscillations in the Ly-alpha forest of BOSS quasars
Authors: N.G. Buscàa et al

arXiv:1211.1926 [introduced by David]
Title: Observational Aspects of an Inhomogeneous Cosmology
Authors: Christoph Saulder, Steffen Mieske and Werner W. Zeilinger

arXiv:1210.5446 [introduced by David]
Title: Zel'dovich approximation and General Relativity
Authors: Cornelius Rampf, Gerasimos Rigopoulos

arxiv:1210.2432 [introduced by David]
Title: The challenge of large and empty voids in SDSS DR7 redshift survey
Authors: Saeed Tavasoli, Kaveh Vasei, Roya Mohayaee

Title: The challenge of the largest structures in the universe to cosmology
Authors: Park, C., Choi, Y.-Y., Kim, J., Gott, J.R., Kim, S.S. and Kim, K.-P.

arXiv:1209.1085 [introduced by David]
Title: Observational Cosmology in Macroscopic Gravity
Authors: Timothy Clifton, Alan Coley, Robert van den Hoogen

arXiv:1208.1058 [introduced by David]
Title: A first application of the Alcock-Paczynski test to stacked cosmic voids
Authors: P. M. Sutter, Guilhem Lavaux, Benjamin Wandelt, David H. Weinberg

arXiv:1206.4887 [introduced by Ahsan]
Title: Late time anisotropy as an imprint of cosmological backreaction
Authors: Giovanni Marozzi, Jean-Philippe Uzan

Title: Lithium Synthesis in Microquasar Accretion
Authors: Fabio Iocco and Miguel Pato