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Fri, 31 Aug 2012

[1] [arXiv:1208.6288](#) [[pdf](#), [ps](#), [other](#)]

TOUGH: Observational aspects of gamma-ray burst host galaxies

[Jens Hjorth](#), [Daniele Malesani](#), [Andreas O. Jaunsen](#), [Andrew J. Levan](#), [Bo Milvang-Jensen](#), [Darach Watson](#), [Javier Gorosabel](#), [Johan P. U. Fynbo](#), [Michał J. Michałowski](#), [Nial R. Tanvir](#), [Páll Jakobsson](#), [Palle Møller](#), [Steve Schulze](#), [Thomas Krühler](#)

Comments: 8 pages, 5 figures, "Gamma-Ray Bursts 2012", Munich, May 7-11, 2012, eds. A. Rau and J. Greiner

Journal-ref: PoS(GRB 2012)136

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#); [High Energy Astrophysical Phenomena \(astro-ph.HE\)](#)

[2] [arXiv:1208.6241](#) [[pdf](#), [ps](#), [other](#)]

Gravitational lensing with $f(\chi)=\chi^{3/2}$ gravity in accordance with astrophysical observations

[S. Mendoza](#), [T. Bernal](#), [X. Hernandez](#), [J.C. Hidalgo](#), [L.A. Torres](#)

Comments: 13 pages, 1 table

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#); [General Relativity and Quantum Cosmology \(gr-qc\)](#)

[3] [arXiv:1208.6234](#) [[pdf](#), [ps](#), [other](#)]

The Contribution of High Redshift Galaxies to the Near-Infrared Background

[Bin Yue](#), [Andrea Ferrara](#), [Ruben Salvaterra](#), [Xuelei Chen](#)

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

[4] [arXiv:1208.6233](#) [[pdf](#), [ps](#), [other](#)]

Disentangling AGN and Star Formation in Soft X-rays

[Stephanie M. LaMassa](#), [T. M. Heckman](#), [A. Ptak](#)

Comments: accepted for publication in ApJ; 34 pages, 9 tables, 4 figures

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

[5] [arXiv:1208.6139](#) [[pdf](#), [other](#)]

Halo Occupation Distribution Modeling of Green Valley Galaxies

[Elisabeth Krause](#), [Christopher M. Hirata](#), [Christopher Martin](#), [James D. Neill](#), [Ted K. Wyder](#)

Comments: MNRAS submitted, comments welcome

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)



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Three-dimensional atmospheric circulation of hot Jupiters on highly eccentric orbits

[Tiffany Kataria](#), [Adam P. Showman](#), [Nikole K. Lewis](#), [Jonathan J. Fortney](#), [Mark S. Marley](#), [Richard S. Freedman](#)

Comments: 43 pages, 16 figures, 2 tables

Subjects: [Earth and Planetary Astrophysics \(astro-ph.EP\)](#)

2. [arXiv:1207.6487](#) [[pdf](#), [other](#)]

Recovering 3D clustering information with angular correlations

[Jacobo Asorey](#), [Martin Crocce](#), [Enrique Gaztanaga](#), [Antony Lewis](#)

Comments: 13 pages, 6 figures

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

3. [arXiv:1207.5639](#) [[pdf](#), [other](#)]

Doppler Signatures of the Atmospheric Circulation on Hot Jupiters

[Adam P. Showman](#), [Jonathan J. Fortney](#), [Nikole K. Lewis](#), [Megan Shabram](#)

Comments: 17 pages, 11 figures, submitted to ApJ

Subjects: [Earth and Planetary Astrophysics \(astro-ph.EP\)](#)

4. [arXiv:1207.5564](#) [[pdf](#), [ps](#), [other](#)]

FMOS near-IR spectroscopy of Herschel selected galaxies: star formation rates, metallicity and dust attenuation at $z \sim 1$

[I. G. Roseboom](#) (Edinburgh), [A. Bunker](#), [M. Sumiyoshi](#), [L. Wang](#), [G. Dalton](#), [M. Akiyama](#), [J. Bock](#), [D. Bonfield](#), [V. Buat](#), [C. Casey](#), [E. Chapin](#), [D. L. Clements](#), [A. Conley](#), [E. Curtis-Lake](#), [A. Cooray](#), [J. S. Dunlop](#), [D. Farrah](#), [S. J. Ham](#), [E. Ibar](#), [F. Iwamuro](#), [M. Kimura](#), [I. Lewis](#), [E. Macaulay](#), [G. Magdis](#), [T. Maihara](#), [G. Marsden](#), [T. Mauch](#), [Y. Moritani](#), [K. Ohta](#), [S. J. Oliver](#), [M. J. Page](#), [B. Schulz](#), [Douglas Scott](#), [M. Symeonidis](#), [N. Takato](#), [N. Tamura](#), [T. Totani](#), [K. Yabe](#), [M. Zemcov](#)

Comments: 13 pages, 7 figures, MNRAS accepted

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

5. [arXiv:1207.4245](#) [[pdf](#), [ps](#), [other](#)]

Two nearby sub-Earth-sized exoplanet candidates in the GJ 436 system

[Kevin B. Stevenson](#), [Joseph Harrington](#), [Nate B. Lust](#), [Nikole K. Lewis](#), [Guillaume Montagnier](#), [Julianne I. Moses](#), [Channon Visscher](#), [Jasmina Bleicik](#), [Ryan A. Hardy](#), [Patricio Cubillos](#), [Christopher J. Campo](#)

Comments: Accepted for publication with ApJ

Subjects: [Earth and Planetary Astrophysics \(astro-ph.EP\)](#); [Instrumentation and Methods for Astrophysics \(astro-ph.IM\)](#)

6. [arXiv:1207.0888](#) [[pdf](#), [ps](#), [other](#)]

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e.g. latest on cold spot in the CMB?

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Astrophysics

Detection of a non-Gaussian Spot in WMAP

M.Cruz, E.Martinez-Gonzalez, P.Vielva, L.Cayon

(Submitted on 18 May 2004 (v1), last revised 23 Sep 2004 (this version, v2))

An extremely cold and big spot in the WMAP 1-year data is analyzed. Our work is a continuation of a previous paper (Vielva et al. 2004) where non-Gaussianity was detected, with a method based on the Spherical Mexican Hat Wavelet (SMHW) technique. We study the spots at different thresholds on the SMHW coefficient maps, considering six estimators, namely number of maxima, number of minima, number of hot and cold spots, and number of pixels of the spots. At SMHW scales around 4 degrees (10 degrees on the sky), the data deviate from Gaussianity. The analysis is performed on all sky, the northern and southern hemispheres, and on four regions covering all the sky. A cold spot at $(b = -57, l = 209)$ is found to be the source of this non-Gaussian signature. We compare the spots of our data with 10000 Gaussian simulations, and conclude that only around 0.2% of them present such a cold spot. Excluding this spot, the remaining map is compatible with Gaussianity and even the excess of kurtosis in Vielva et al. 2004, is found to be due exclusively to this spot. Finally, we study whether the spot causing the observed deviation from Gaussianity could be generated by systematics or foregrounds. None of them seem to be responsible for the non-Gaussian detection.

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Comments: 14 pages, references and two new sections (4.4, 5.3) added, accepted for publication in MNRAS

Subjects: **Astrophysics (astro-ph)**

Journal reference: Mon.Not.Roy.Astron.Soc.356:29-40,2005

DOI: [10.1111/j.1365-2966.2004.08419.x/abs/](https://doi.org/10.1111/j.1365-2966.2004.08419.x/abs/)

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A robust constraint on cosmic textures from the cosmic microwave background

[Stephen M. Feeney](#), [Matthew C. Johnson](#), [Daniel J. Mortlock](#), [Hiranya V. Peiris](#)

Comments: 5 pages, 2 figures. v2: replaced with version accepted by PRL (minor amendments to reduce length and address referee comments)

Journal-ref: Phys.Rev.Lett. 108:241301,2012

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#); [High Energy Physics - Phenomenology \(hep-ph\)](#); [High Energy Physics - Theory \(hep-th\)](#)

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Testing discrete symmetries with the cosmic microwave background: Current constraints and Planck forecasts

[N. Mandolesi](#), [C. Burigana](#), [A. Gruppuso](#), [P. Natoli](#)

3. [arXiv:1202.2933](#) [[pdf](#), [ps](#), [other](#)]

Large-angle non-Gaussianity in simulated high-resolution CMB maps

[A. Bernui](#), [M.J. Reboucas](#), [A.F.F. Teixeira](#)

Comments: 8 pages, 3 figures

Journal-ref: Int. J. Mod. Phys.: Conf. Series, v.3, N1, 2011

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

4. [arXiv:1202.1711](#) [[pdf](#), [ps](#), [other](#)]

Faraday Rotation as a diagnostic of Galactic foreground contamination of CMB maps

[M. Hansen](#), [W. Zhao](#), [A. M. Frejsel](#), [P. D. Naselsky](#), [J. Kim](#), [O. V. Verkhodanov](#)

Comments: 13 pages, 22 figures, 6 tables

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

5. [arXiv:1202.0728](#) [[pdf](#), [ps](#), [other](#)]

Symmetry and anti-symmetry of the CMB anisotropy pattern

[Jaiseung Kim](#), [Pavel Naselsky](#), [Martin Hansen](#)

Comments: review article

Journal-ref: Advances in Astronomy, Volume 2012, Article ID 960509

Subjects: [Cosmology and Extragalactic Astrophysics \(astro-ph.CO\)](#)

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2	2011A&A...536A...6P Planck HFI Core Team; Ade, P. A. R.; Aghanim, N.; Ansari, R.; Arnaud, M.; Ashdown, M.; Aumont, J.; Banday, A. J.; Bartelmann, M.; Bartlett, J. G.; and 156 coauthors	1.000	12/2011	A E F X R C S O U
3	2011PhRvD...84d3516C Challinor, Anthony; Lewis, Antony	1.000	08/2011	A E X R C U
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Title: CMB power spectrum parameter degeneracies in the era of precision cosmology
Authors: [Howlett, Cullan; Lewis, Antony; Hall, Alex; Challinor, Anthony](#)
Affiliation: AA(Department of Physics & Astronomy, University of Sussex, Brighton BN1 9QH, U.K. ch256@sussex.ac.uk), AB(Department of Physics & Astronomy, University of Sussex, Brighton BN1 9QH, U.K. antony@cosmologist.info), AC(Institute of Astronomy and Kavli Institute for Cosmology, Madingley Road, Cambridge, CB3 0HA, U.K. ach74@ast.cam.ac.uk), AD(Institute of Astronomy and Kavli Institute for Cosmology, Madingley Road, Cambridge, CB3 0HA, U.K. ; DAMTP, Centre for Mathematical Sciences, Wilberforce Road, Cambridge CB3 0WA, U.K.; adc1000@ast.cam.ac.uk)
Publication: Journal of Cosmology and Astroparticle Physics, Issue 04, id. 027 (2012). ([JCAP Homepage](#))
Publication Date: 04/2012
Origin: [IOP](#)
DOI: [10.1088/1475-7516/2012/04/027](https://doi.org/10.1088/1475-7516/2012/04/027)
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Abstract

Cosmological parameter constraints from the CMB power spectra alone suffer several well-known degeneracies. These degeneracies can be broken by numerical artefacts and also a variety of physical effects that become quantitatively important with high-accuracy data e.g. from the Planck satellite. We study degeneracies in models with flat and non-flat spatial sections, non-trivial dark energy and massive neutrinos, and investigate the importance of various physical degeneracy-breaking effects. We test the CAMB power spectrum code for numerical accuracy, and demonstrate that the numerical calculations are accurate enough for degeneracies to be broken mainly by true physical effects (the integrated Sachs-Wolfe effect, CMB lensing and geometrical and other effects through recombination) rather than numerical artefacts. We quantify the impact of CMB lensing on the power spectra, which inevitably provides degeneracy-breaking information even without using information in the non-Gaussianity. Finally we check the numerical accuracy of sample-based parameter constraints using CAMB and COSMOMC. In an appendix we document recent changes to CAMB's numerical treatment of massive neutrino perturbations, which are tested along with other recent improvements by our degeneracy exploration results.

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Annual Reviews of Earth And Planetary Sciences (v.1-24: 1973-1996)
Arkiv for Astronomii (v.1-5: 1955-1974)
Astronomical Journal (v.1-114: 11/1849-12/1997)
Astronomische Nachrichten (v.1-319: 1823-10/1998)
Astronomy and Astrophysics (v.1-364: 1/1969-12/2000)
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Astronomy Letters (formerly Soviet Astronomy Letters) (v.1-28: 1/1975-12/2002)
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Australian Journal of Physics Astrophysical Supplement (v.1-44: 4/1966-11/1977)
Australian Journal of Physics (formerly Aus. J. Scientific Research A) (v.1-49: 3/1948-1996)
Baltic Astronomy (v.1-21: 1992-2012)
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Chinese Journal of Astronomy & Astrophysics (v.1-8: 1/2001)
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Journal des Observateurs (v.1-51: 1917-1968)
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The Journal of the American Association of Variable Star Observers (v.1-37: 1972)
Journal of the Association of Lunar and Planetary Observers (v.31-51: 2/1985)
Journal of the British Astronomical Association (v.1-15: 10/1890-10/1905; v.33-66: 11/1922-10/1956; v.68-83: 1/1958-10/1973; v.85-89: 12/1974-10/1979; v.92-120: 12/1981-12/2010)
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Planck HFI Core Team [\(1\)](#)

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[Turok, Neil G.](#) [\(3\)](#)
[Weller, Jochen](#) [\(3\)](#)
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[Gordon, Christopher I. O.](#) [\(2\)](#)
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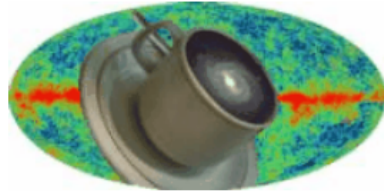
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 CP3-12-35-ULB-TH-12-16
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 N. Cappelluti, P. Ranalli, M. Roncarelli, P. Arevalo, G. Zamorani A. Comastri, R. Gilli, E. Rovilos, C. Vignali, V. Allevato, A. Finoguenov *et al.*. Aug 2012. 15 pp.
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 Claudia Antolini, Matteo Martinelli, Yabebal Fantaye, Carlo Baccigalupi. Aug 2012. 14 pp.
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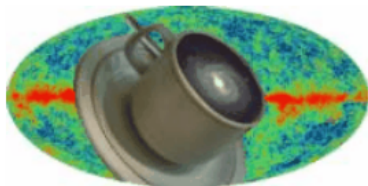
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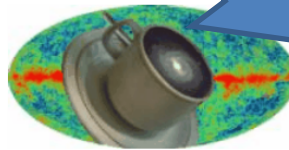
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Title: The **inflationary bispectrum** with curved field-space
Authors: Joseph Elliston, David Seery, Reza Tavakol
Comments: 22 pages, plus appendix and references

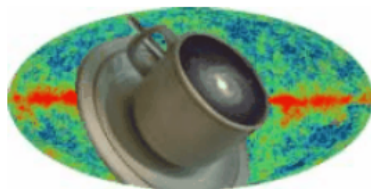
We compute the covariant three-point function near horizon-crossing for a system of slowly-rolling scalar fields during an **inflationary** epoch, allowing for an arbitrary field-space metric. We show explicitly how to compute its subsequent evolution using a covariantized version of the separate **universe** or "delta-N" expansion, which must be augmented by terms measuring curvature of the field-space manifold, and give the nonlinear gauge transformation to the comoving curvature perturbation. Nonlinearities induced by the field-space curvature terms are a new and potentially significant source of non-Gaussianity. We show how **inflationary** models with non-minimal coupling to the spacetime Ricci scalar can be accommodated within this framework. This yields a simple toolkit allowing the **bispectrum** to be computed in models with non-negligible field-space curvature.

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Title: Implications of mirror **dark matter** kinetic mixing for **CMB** anisotropies
Authors: R. Foot
Comments: About 12 pages

Mirror **dark matter** is a dissipative and self-interacting multiparticle dark matter candidate which can explain the DAMA, CoGeNT and CRESST-II direct detection experiments. This explanation requires photon-mirror photon kinetic mixing of strength $\epsilon \sim 10^{-9}$. Mirror **dark matter** with such kinetic mixing can potentially leave distinctive signatures on the **CMB** anisotropy spectrum. We show that the most important effect of kinetic mixing on the **CMB** anisotropies is the suppression of the height of the third and higher

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Title: The Top 10^{500} Reasons Not to Believe in the Landscape

Authors: T. Banks

Antony Lewis, Jonathan Frazer

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Title: Model Independent Early Expansion History and Dark Energy

Authors: Johan Samsing, Eric V. Linder, Tristan L. Smith

Marisa Cristina March

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Authors: James S. Bolton (Melbourne), Martin G. Haehnelt (IoA/KICC, Cambridge)

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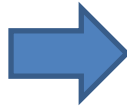
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M. Cruz, E. Martinez-Gonzalez, P. Vielva, L. Cayon. May 2004. 13 pp.

Published in *Mon.Not.Roy.Astron.Soc.* 356 (2005) 29-40

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              Cayon, L.",  
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  journal   = "Mon.Not.Roy.Astron.Soc.",  
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  pages     = "29-40",  
  doi       = "10.1111/j.1365-2966.2004.08419.x/abs/",  
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  volume   = "1204",
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  title    = "{Detecting the Rise and Fall of the First Stars by Their Impact on Cosmic Reionization}",
  year     = "2012",
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@article{Zaldarriaga:1997va,
  author   = "Zaldarriaga, Matias and Seljak, Uros and Bertschinger, Edmund",
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\author{Antony Lewis}
\homepage{http://cosmologist.info}

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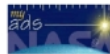
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