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## 1. Cosmological model of the universe

[827](#) citations by astro-ph eprints in 2015

[Planck 2013 results. XVI. Cosmological parameters](#)

Planck Collaboration ([P.A.R. Ade \(Cardiff U.\) et al.](#)). Mar 20, 2013. 66 pp.

Published in [Astron. Astrophys. 571 \(2014\) A16](#)

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DOI: [10.1051/0004-6361/201321591](https://doi.org/10.1051/0004-6361/201321591)

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[Planck 2015 results. XIII. Cosmological parameters](#)

Planck Collaboration ([P.A.R. Ade \(Cardiff U.\) et al.](#)). Feb 5, 2015.

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[406](#) citations by astro-ph eprints in 2015

[Nine-Year Wilkinson Microwave Anisotropy Probe \(WMAP\) Observations: Cosmological Parameter Results](#)

WMAP Collaboration ([G. Hinshaw \(British Columbia U.\) et al.](#)). Dec 2012. 25 pp.

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[Seven-Year Wilkinson Microwave Anisotropy Probe \(WMAP\) Observations: Cosmological Interpretation](#)

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[Nine-Year Wilkinson Microwave Anisotropy Probe \(WMAP\) Observations: Final Maps and Results](#)

WMAP Collaboration ([C.L. Bennett \(Johns Hopkins U.\) et al.](#)). Dec 2012. 54 pp.

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## 2. Universal dark matter halo

[380](#) citations by astro-ph eprints in 2015

[A Universal density profile from hierarchical clustering](#)

Julio F. Navarro (Arizona U., Astron. Dept. - Steward Observ.), Carlos S. Frenk (Durham U.), Simon D.M. White (Garching, Max Planck Inst.). Nov 1996.

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[259](#) citations by astro-ph eprints in 2015

## The Structure of cold dark matter halos

Julio F. Navarro (Arizona U., Astron. Dept. - Steward Observ.), Carlos S. Frenk (Durham U.), Simon D.M. White (Garching, Max Planck Inst.). Aug 1995. 22 pp.  
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## **3. Simulating the Universe**

357 citations by astro-ph eprints in 2015

### The Cosmological simulation code GADGET-2

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Volker Springel et al.. Apr 2005. 42 pp.  
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### The Aquarius Project: the subhalos of galactic halos

Volker Springel, Jie Wang, Mark Vogelsberger (Garching, Max Planck Inst.), Aaron Ludlow (Victoria U.), Adrian Jenkins (Durham U.), Amina Helmi (Kapteyn Astron. Inst., Groningen), Julio F. Navarro (Massachusetts U., FCRAO & Victoria U.), Carlos S. Frenk (Durham U.), Simon D.M. White (Garching, Max Planck Inst.). Sep 2008. 30 pp.  
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## **4. Black hole binary**

315 citations by astro-ph eprints in 2015

### Black holes in binary systems. Observational appearance

N.I. Shakura (Sternberg Astron. Inst.), R.A. Sunyaev (Moscow, IPM). Jun 1972.  
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108 citations by astro-ph eprints in 2015

### X-ray Properties of Black-Hole Binaries

Ronald A. Remillard (MIT, MKI), Jeffrey E. McClintock (Harvard-Smithsonian Ctr. Astrophys.). Jun 2006. 39 pp.  
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## **5. Accelerating Universe**

296 citations by astro-ph eprints in 2015

Observational evidence from supernovae for an accelerating universe and a cosmological constant  
Supernova Search Team Collaboration (Adam G. Riess (UC, Berkeley, Astron. Dept.) *et al.*). May 1998. 36 pp.

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Measurements of Omega and Lambda from 42 high redshift supernovae

Supernova Cosmology Project Collaboration ([S. Perlmutter \(UC, Berkeley, CfPA\)](#) *et al.*). Dec 1998. 33 pp.

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## 6. Stellar population synthesis

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Stellar population synthesis at the resolution of 2003

G. Bruzual (Merida, CIDA), Stephane Charlot (Garching, Max Planck Inst. & Paris, Inst. Astrophys.). Sep 2003. 35 pp.

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220 citations by astro-ph eprints in 2015

Galactic stellar and substellar initial mass function

Gilles Chabrier (Lyon, Ecole Normale Supérieure). Apr 2003. 91 pp.

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## 7. Detection/nondetection of primordial gravitational waves

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Detection of \$B\$-Mode Polarization at Degree Angular Scales by BICEP2

BICEP2 Collaboration ([P.A.R. Ade \(Cardiff U.\)](#) *et al.*). Mar 16, 2014. 25 pp.

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61 citations in 2014

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Raphael Flauger (Princeton, Inst. Advanced Study & New York U., CCPP), J. Colin Hill, David N. Spergel (Princeton U., Astrophys. Sci. Dept.). May 28, 2014. 11 pp.

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50 citations in 2014

A joint analysis of Planck and BICEP2 B modes including dust polarization uncertainty

Michael J. Mortonson (UC, Berkeley, Space Sci. Dept. & LBNL, Berkeley), Uros Seljak (UC, Berkeley & UC, Berkeley,

[Astron. Dept.](#) & [LBNL, Berkeley](#)). May 22, 2014. 12 pp.  
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## 8. Detection of barion-acoustic oscillations

[189](#) citations by astro-ph eprints in 2015

[The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Data Releases 10 and 11 Galaxy samples](#)

BOSS Collaboration ([Lauren Anderson](#) ([Washington U.](#), [Seattle, Astron. Dept.](#)) *et al.*). Dec 17, 2013. 39 pp.  
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[The Baryon Oscillation Spectroscopic Survey of SDSS-III](#)

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[159](#) citations by astro-ph eprints in 2015

[The 6dF Galaxy Survey: Baryon Acoustic Oscillations and the Local Hubble Constant](#)

[Florian Beutler](#) ([Western Australia U.](#)), [Chris Blake](#) ([Swinburne U.](#), [Ctr. Astrophys. Supercomput.](#)), [Matthew Colless](#),  
[D.Heath Jones](#) ([Australian Astron. Observ.](#)), [Lister Staveley-Smith](#) ([Western Australia U.](#)), [Lachlan Campbell](#) ([Western Kentucky U.](#)), [Quentin Parker](#) ([Australian Astron. Observ.](#) & [Macquarie U.](#)), [Will Saunders](#), [Fred Watson](#) ([Australian Astron. Observ.](#)). Jun 2011. 18 pp.

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[149](#) citations by astro-ph eprints in 2015

[Detection of the baryon acoustic peak in the large-scale correlation function of SDSS luminous red galaxies](#)

[SDSS](#) Collaboration ([Daniel J. Eisenstein](#) ([Arizona U.](#)) *et al.*). Jan 2005.  
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[128](#) citations by astro-ph eprints in 2015

[The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the Data Release 9 Spectroscopic Galaxy Sample](#)

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[Baryonic features in the matter transfer function](#)

[Daniel J. Eisenstein](#), [Wayne Hu](#) ([Princeton, Inst. Advanced Study](#)). Sep 1997. 20 pp.

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## 9. Theory of jets

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Electromagnetic extractions of energy from Kerr black holes

R.D. Blandford, R.L. Znajek ([Cambridge U.](#), [Inst. of Astron.](#)). 1977.

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Energy input from quasars regulates the growth and activity of black holes and their host galaxies

Tiziana Di Matteo, Volker Springel ([Garching](#), [Max Planck Inst.](#)), Lars Hernquist ([Harvard U.](#)). Feb 2005. 15 pp.

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William H. Press, Paul Schechter ([Caltech](#)). Aug 1973.

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## 11. Galaxy halo mass function

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Toward a halo mass function for precision cosmology: The Limits of universality

Jeremy L. Tinker ([Chicago U.](#), [KICP](#) & [Chicago U.](#), [Astron. Astrophys. Ctr.](#)), Andrey V. Kravtsov ([Chicago U.](#), [KICP](#) & [Chicago U.](#), [Astron. Astrophys. Ctr.](#) & [Chicago U.](#), [EFI](#)), Anatoly Klypin ([New Mexico State U.](#)), Kevork Abazajian ([Maryland U.](#)), Michael S. Warren ([Los Alamos](#)), Gustavo Yepes ([Madrid, Autonoma U.](#)), Stefan Gottlöber ([Potsdam, Astrophys. Inst.](#)), Daniel E. Holz ([Los Alamos](#)). Mar 2008. 19 pp.

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## 12. High energy neutrinos

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Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data

IceCube Collaboration ([M.G. Aartsen \(Adelaide U.\) et al.](#)). May 21, 2014. 8 pp.

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## 13. Unified theory of active galactic nuclei

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## [Unified schemes for radio-loud active galactic nuclei](#)

C.Megan Urry ([Baltimore, Space Telescope Sci.](#)), [Paolo Padovani](#) ([Rome U., Tor Vergata](#)). Jun 1995. 88 pp.

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## **14. Luminosity function of stars**

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### [The Luminosity function and stellar evolution](#)

[Edwin E. Salpeter](#) ([Australian Natl. U., Canberra & Cornell U., Astron. Dept.](#)). Jan 1955. 7 pp.

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## **15. Cooling flows**

[133](#) citations by astro-ph eprints in 2015

### [The Many lives of AGN: Cooling flows, black holes and the luminosities and colours of galaxies](#)

Darren J. Croton, Volker Springel, Simon D.M. White, G. De Lucia ([Garching, Max Planck Inst.](#)), C.S. Frenk ([Durham U.](#)), L. Gao ([Garching, Max Planck Inst.](#)), A. Jenkins ([Durham U.](#)), G. Kauffmann ([Garching, Max Planck Inst.](#)), J.F. Navarro ([Victoria U.](#)), N. Yoshida ([Nagoya U.](#)). Aug 2005. 21 pp.

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## **16. Highest Mass Neutron Star**

[129](#) citations by astro-ph eprints in 2015

### [Shapiro Delay Measurement of A Two Solar Mass Neutron Star](#)

[Paul Demorest](#) ([NRAO, Charlottesville](#)), [Tim Pennucci](#) ([Virginia U., Astron. Dept.](#)), [Scott Ransom](#) ([NRAO, Charlottesville](#)), [Mallory Roberts](#) ([Eureka Sci.](#)), [Jason Hessels](#) ([ASTRON, Dwingeloo & Amsterdam U., Astron. Inst.](#)). Oct 2010.

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## **17. Star formation**

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### [Star formation in galaxies along the Hubble sequence](#)

[Robert C. Kennicutt, Jr.](#) ([Arizona U., Astron. Dept. - Steward Observ.](#)). Jul 1998. 41 pp.

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## **18. Weak lensing**

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### [Weak gravitational lensing](#)

[Matthias Bartelmann, Peter Schneider](#) ([Garching, Max Planck Inst.](#)). Dec 1999. 223 pp.

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e-Print: [astro-ph/9912508](https://arxiv.org/abs/astro-ph/9912508) | [PDF](#)

## 19. Black hole feedback

[106](#) citations by astro-ph eprints in 2015

[Energy input from quasars regulates the growth and activity of black holes and their host galaxies](#)  
[Tiziana Di Matteo, Volker Springel \(Garching, Max Planck Inst.\), Lars Hernquist \(Harvard U.\)](#). Feb 2005. 15 pp.

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[The Seventh Data Release of the Sloan Digital Sky Survey](#)

[SDSS](#) Collaboration ([Kevork N. Abazajian \(Maryland U.\) et al.](#)). Dec 2008. 20 pp.

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## 2. FERMI Gamma ray

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Fermi-LAT Collaboration. Aug 2011. 108 pp.

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## 3. SWIFT Gamma-Ray Burst

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[The Swift Gamma-Ray Burst Mission](#)

[Swift Science](#) Collaboration ([N. Gehrels et al.](#)). May 2004. 38 pp.

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## 4. 2MASS Two-Micron All Sky Survey

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[The Two Micron All Sky Survey \(2MASS\)](#)

[M.F. Skrutskie et al.](#). Feb 2006.

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## 5. WISE infrared

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### [The Wide-field Infrared Survey Explorer \(WISE\): Mission Description and Initial On-orbit Performance](#)

[Edward L. Wright et al.](#). Aug 2010. 22 pp.

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## 6. SWIFT X-ray

[134](#) citations by astro-ph eprints in 2015

### [The Swift X-ray Telescope](#)

[David N. Burrows \(Penn State U.\) et al.](#). Aug 2005. 36 pp.

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## 8. ICECUBE

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### [Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector](#)

[IceCube Collaboration \(M.G. Aartsen \(Adelaide U.\) et al.\).](#) Nov 20, 2013. 38 pp.

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