

Top cited papers

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## 1. Cosmological model of the universe

**1279 citations by astro-ph eprints in 2017**

Planck 2015 results. XIII. Cosmological parameters

[Planck](#) Collaboration ([P.A.R. Ade \(Cardiff U.\) et al.](#)). Feb 5, 2015. 63 pp.

Published in [Astron.Astrophys. 594 \(2016\) A13](#)

DOI: [10.1051/0004-6361/201525830](https://doi.org/10.1051/0004-6361/201525830)

e-Print: [arXiv:1502.01589 \[astro-ph.CO\]](#) | [PDF](#)

**424 citations by astro-ph eprints in 2017**

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](#)

CERN-PH-TH-2013-129

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

e-Print: [arXiv:1303.5076 \[astro-ph.CO\]](#) | [PDF](#)

**335 citations by astro-ph eprints in 2017**

Efficient computation of CMB anisotropies in closed FRW models

[Antony Lewis, Anthony Challinor, Anthony Lasenby \(Cambridge U.\)](#). Nov 1999. 4 pp.

Published in [Astrophys.J. 538 \(2000\) 473-476](#)

DOI: [10.1086/309179](https://doi.org/10.1086/309179)

e-Print: [astro-ph/9911177](#) | [PDF](#)

**296 citations by astro-ph eprints in 2017**

Nine-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Cosmological Parameter Results

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

Published in [Astrophys.J.Suppl. 208 \(2013\) 19](#)

DOI: [10.1088/0067-0049/208/2/19](https://doi.org/10.1088/0067-0049/208/2/19)

e-Print: [arXiv:1212.5226 \[astro-ph.CO\]](#) | [PDF](#)

**219 citations by astro-ph eprints in 2017**

Seven-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Cosmological Interpretation

[WMAP](#) Collaboration ([E. Komatsu \(Texas U.\) et al.](#)). Jan 2010. 48 pp.

Published in [Astrophys.J.Suppl. 192 \(2011\) 18](#)

DOI: [10.1088/0067-0049/192/2/18](https://doi.org/10.1088/0067-0049/192/2/18)

e-Print: [arXiv:1001.4538 \[astro-ph.CO\]](#) | [PDF](#)

## 2. Discovery of gravitational waves

**538 citations by astro-ph eprints in 2017**

Observation of Gravitational Waves from a Binary Black Hole Merger

LIGO Scientific and Virgo Collaborations (B.P. Abbott (Caltech) et al.). Feb 11, 2016. 16 pp.

Published in [Phys.Rev.Lett. 116 \(2016\) no.6, 061102](#)

LIGO-P150914

DOI: [10.1103/PhysRevLett.116.061102](https://doi.org/10.1103/PhysRevLett.116.061102)

e-Print: [arXiv:1602.03837 \[gr-qc\]](https://arxiv.org/abs/1602.03837) | [PDF](#)

### **182 citations by astro-ph eprints in 2017**

GW170104: Observation of a 50-Solar-Mass Binary Black Hole Coalescence at Redshift 0.2

[LIGO Scientific](#) and [VIRGO](#) Collaborations ([Benjamin P. Abbott \(LIGO Lab., Caltech\) et al.](#)).

Jun 6, 2017. 17 pp.

Published in [Phys.Rev.Lett. 118 \(2017\) no.22, 221101](#)

LIGO-P170104

DOI: [10.1103/PhysRevLett.118.221101](https://doi.org/10.1103/PhysRevLett.118.221101)

e-Print: [arXiv:1706.01812 \[gr-qc\]](https://arxiv.org/abs/1706.01812) | [PDF](#)

### **177 citations by astro-ph eprints in 2017**

GW170817: Observation of Gravitational Waves from a Binary Neutron Star Inspiral

[LIGO Scientific](#) and [Virgo](#) Collaborations ([B. P. Abbott \(LIGO Lab., Caltech\) et al.](#)).

Oct 16, 2017. 18 pp.

Published in [Phys.Rev.Lett. 119 \(2017\) no.16, 161101](#)

LIGO-P170817

DOI: [10.1103/PhysRevLett.119.161101](https://doi.org/10.1103/PhysRevLett.119.161101)

e-Print: [arXiv:1710.05832 \[gr-qc\]](https://arxiv.org/abs/1710.05832) | [PDF](#)

### **166 citations by astro-ph eprints in 2017**

Binary Black Hole Mergers in the first Advanced LIGO Observing Run

[LIGO Scientific](#) and [Virgo](#) Collaborations ([B.P. Abbott \(Caltech\) et al.](#)). Jun 15, 2016. 36 pp.

Published in [Phys.Rev. X6 \(2016\) no.4, 041015](#)

LIGO-P1600088

DOI: [10.1103/PhysRevX.6.041015](https://doi.org/10.1103/PhysRevX.6.041015)

e-Print: [arXiv:1606.04856 \[gr-qc\]](https://arxiv.org/abs/1606.04856) | [PDF](#)

## **3. Universal dark matter halo**

### **372 citations by astro-ph eprints in 2017**

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. 16 pp.

Published in [Astrophys.J. 490 \(1997\) 493-508](#)

DOI: [10.1086/304888](https://doi.org/10.1086/304888)

e-Print: [astro-ph/9611107](https://arxiv.org/abs/astro-ph/9611107) | [PDF](#)

### **284 citations by astro-ph eprints in 2017**

#### 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.

Published in [Astrophys.J. 462 \(1996\) 563-575](#)

DOI: [10.1086/177173](https://doi.org/10.1086/177173)

e-Print: [astro-ph/9508025](https://arxiv.org/abs/astro-ph/9508025) | [PDF](#)

## 4. Black hole accretion

[331 citations by astro-ph eprints in 2017](#)

Black holes in binary systems. Observational appearance

[N.I. Shakura \(Sternberg Astron. Inst.\), R.A. Sunyaev \(Moscow, IPM\)](#). Jun 1972. 19 pp.

Published in [Astron.Astrophys. 24 \(1973\) 337-355](#)

## 5. Accelerating Universe

[331 citations by astro-ph eprints in 2017](#)

Observational evidence from supernovae for an accelerating universe and a cosmological constant

[Supernova Search Team \(Adam G. Riess \(UC, Berkeley, Astron. Dept.\) et al.\)](#). May 1998. 36 pp.

Published in [Astron.J. 116 \(1998\) 1009-1038](#)

DOI: [10.1086/300499](https://doi.org/10.1086/300499)

e-Print: [astro-ph/9805201](#) | [PDF](#)

[310 citations by astro-ph eprints in 2017](#)

[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.

Published in [Astrophys.J. 517 \(1999\) 565-586](#)

LBNL-41801, LBL-41801

DOI: [10.1086/307221](https://doi.org/10.1086/307221)

e-Print: [astro-ph/9812133](#) | [PDF](#)

[242 citations by astro-ph eprints in 2017](#)

[Improved cosmological constraints from a joint analysis of the SDSS-II and SNLS supernova samples](#)

[SDSS Collaboration \(M. Betoule \(Paris U., VI-VII\) et al.\)](#). Jan 16, 2014. 32 pp.

Published in [Astron.Astrophys. 568 \(2014\) A22](#)

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DOI: [10.1051/0004-6361/201423413](https://doi.org/10.1051/0004-6361/201423413)

e-Print: [arXiv:1401.4064](#) [astro-ph.CO] | [PDF](#)

## 6. Simulating the Universe

[325 citations by astro-ph eprints in 2017](#)

The Cosmological simulation code GADGET-2

[Volker Springel \(Garching, Max Planck Inst.\)](#). May 2005. 31 pp.

Published in [Mon.Not.Roy.Astron.Soc. 364 \(2005\) 1105-1134](#)

DOI: [10.1111/j.1365-2966.2005.09655.x](https://doi.org/10.1111/j.1365-2966.2005.09655.x)

e-Print: [astro-ph/0505010](#) | [PDF](#)

[128 citations by astro-ph eprints in 2017](#)

[Introducing the Illustris Project: Simulating the coevolution of dark and visible matter in the](#)

## Universe

Mark Vogelsberger ([MIT](#)), Shy Genel ([Harvard-Smithsonian Ctr. Astrophys.](#)), Volker Springel ([HITS](#)), Paul Torrey ([Harvard-Smithsonian Ctr. Astrophys.](#)), Debora Sijacki ([Cambridge U., Inst. of Astron.](#)), Dandan Xu ([HITS](#)), Gregory F. Snyder ([STScI](#)), Dylan Nelson, Lars Hernquist ([Harvard-Smithsonian Ctr. Astrophys.](#)). May 12, 2014. 30 pp.  
Published in [Mon.Not.Roy.Astron.Soc. 444 \(2014\) no.2, 1518-1547](#)  
DOI: [10.1093/mnras/stu1536](https://doi.org/10.1093/mnras/stu1536)  
e-Print: [arXiv:1405.2921](https://arxiv.org/abs/1405.2921) [astro-ph.CO] | [PDF](#)

## 7. Local Hubble Constant – is there a tension?

**267 citations by astro-ph eprints in 2017**

A 2.4% Determination of the Local Value of the Hubble Constant

Adam G. Riess ([Johns Hopkins U. & Baltimore, Space Telescope Sci.](#)) *et al.*. Apr 5, 2016. 31 pp.  
Published in [Astrophys.J. 826 \(2016\) no.1, 56](#)  
DOI: [10.3847/0004-637X/826/1/56](https://doi.org/10.3847/0004-637X/826/1/56)  
e-Print: [arXiv:1604.01424](https://arxiv.org/abs/1604.01424) [astro-ph.CO] | [PDF](#)

## 8. The gamma ray sky

**260 citations by astro-ph eprints in 2017**

Fermi Large Area Telescope Third Source Catalog

[Fermi-LAT](#) Collaboration ([F. Acero \(DAPNIA, Saclay\)](#) *et al.*). Jan 8, 2015. 99 41 pp.  
Published in [Astrophys.J.Suppl. 218 \(2015\) no.2, 23](#)  
DOI: [10.1088/0067-0049/218/2/23](https://doi.org/10.1088/0067-0049/218/2/23)  
e-Print: [arXiv:1501.02003](https://arxiv.org/abs/1501.02003) [astro-ph.HE] | [PDF](#)

**206 citations by astro-ph eprints in 2017**

The Large Area Telescope on the Fermi Gamma-ray Space Telescope Mission

[Fermi-LAT](#) Collaboration ([W.B. Atwood \(UC, Santa Cruz\)](#) *et al.*). Feb 2009. 40 pp.  
Published in [Astrophys.J. 697 \(2009\) 1071-1102](#)  
SLAC-PUB-13620  
DOI: [10.1088/0004-637X/697/2/1071](https://doi.org/10.1088/0004-637X/697/2/1071)  
e-Print: [arXiv:0902.1089](https://arxiv.org/abs/0902.1089) [astro-ph.IM] | [PDF](#)

## 9. Baryon Acoustic Oscillations

**26 citations by astro-ph eprints in 2017**

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.  
Published in [Mon.Not.Roy.Astron.Soc. 441 \(2014\) no.1, 24-62](#)  
DOI: [10.1093/mnras/stu523](https://doi.org/10.1093/mnras/stu523)  
e-Print: [arXiv:1312.4877](https://arxiv.org/abs/1312.4877) [astro-ph.CO] | [PDF](#)

## **204 citations by astro-ph eprints in 2017**

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.

Published in **Mon.Not.Roy.Astron.Soc. 416 (2011) 3017-3032**

DOI: [10.1111/j.1365-2966.2011.19250.x](https://doi.org/10.1111/j.1365-2966.2011.19250.x)

e-Print: [arXiv:1106.3366](https://arxiv.org/abs/1106.3366) [astro-ph.CO] | [PDF](#)

## **174 citations by astro-ph eprints in 2017**

The Baryon Oscillation Spectroscopic Survey of SDSS-III  
[BOSS](#) Collaboration ([Kyle S. Dawson](#) ([Utah U.](#)) *et al.*). Aug 2012. 46 pp.

Published in **Astron.J. 145 (2013) 10**

DOI: [10.1088/0004-6256/145/1/10](https://doi.org/10.1088/0004-6256/145/1/10)

e-Print: [arXiv:1208.0022](https://arxiv.org/abs/1208.0022) [astro-ph.CO] | [PDF](#)

## **173 citations by astro-ph eprints in 2017**

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. 15 pp.

Published in **Astrophys.J. 633 (2005) 560-574**

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DOI: [10.1086/466512](https://doi.org/10.1086/466512)

e-Print: [astro-ph/0501171](https://arxiv.org/abs/astro-ph/0501171) | [PDF](#)

## **173 citations by astro-ph eprints in 2017**

The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample

[BOSS](#) Collaboration ([Shadab Alam](#) ([Carnegie Mellon U.](#)) *et al.*). Jul 11, 2016. 36 pp.

Published in **Mon.Not.Roy.Astron.Soc. 470 (2017) no.3, 2617-2652**

DOI: [10.1093/mnras/stx721](https://doi.org/10.1093/mnras/stx721)

e-Print: [arXiv:1607.03155](https://arxiv.org/abs/1607.03155) [astro-ph.CO] | [PDF](#)

## **10. Interstellar medium in X-rays**

### **203 citations by astro-ph eprints in 2017**

On the Absorption of X-rays in the interstellar medium

[J. Wilms](#) ([Tubingen U., IAAT](#)), [A. Allen](#), [R. McCray](#) ([JILA, Boulder](#)). Aug 2000. 11 pp.

Published in **Astrophys.J. 542 (2000) 914-924**

DOI: [10.1086/317016](https://doi.org/10.1086/317016)

e-Print: [astro-ph/0008425](https://arxiv.org/abs/astro-ph/0008425) | [PDF](#)

## 11. Population synthesis

**202** citations by astro-ph eprints in 2017

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.

Published in **Mon.Not.Roy.Astron.Soc. 344 (2003) 1000**

DOI: [10.1046/j.1365-8711.2003.06897.x](https://doi.org/10.1046/j.1365-8711.2003.06897.x)

e-Print: [astro-ph/0309134](#) | [PDF](#)

## 12. Simulating quasars, galaxies, and large scale structure

**183** citations by astro-ph eprints in 2017

Simulating the joint evolution of quasars, galaxies and their large-scale distribution

[Volker Springel et al.](#). Apr 2005. 42 pp.

Published in **Nature 435 (2005) 629-636**

DOI: [10.1038/nature03597](https://doi.org/10.1038/nature03597)

e-Print: [astro-ph/0504097](#) | [PDF](#)

## 13. Stellar initial mass function

**179** citations by astro-ph eprints in 2017

Galactic stellar and substellar initial mass function

[Gilles Chabrier \(Lyon, Ecole Normale Supérieure\)](#). Apr 2003. 91 pp.

Published in **Publ.Astron.Soc.Pac. 115 (2003) 763-796**

DOI: [10.1086/376392](https://doi.org/10.1086/376392)

e-Print: [astro-ph/0304382](#) | [PDF](#)

**131** citations by astro-ph eprints in 2017

On the variation of the initial mass function

[Pavel Kroupa \(Kiel U., Inst. Theor. Phys. Astrophys.\)](#). Sep 2000. 34 pp.

Published in **Mon.Not.Roy.Astron.Soc. 322 (2001) 231**

DOI: [10.1046/j.1365-8711.2001.04022.x](https://doi.org/10.1046/j.1365-8711.2001.04022.x)

e-Print: [astro-ph/0009005](#) | [PDF](#)

**125** citations by astro-ph eprints in 2017

The Luminosity function and stellar evolution

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

Published in **Astrophys.J. 121 (1955) 161-167**

DOI: [10.1086/145971](https://doi.org/10.1086/145971)

## 14. The Physics of Jets

**162** citations by astro-ph eprints in 2017

Electromagnetic extractions of energy from Kerr black holes

[R.D. Blandford, R.L. Znajek \(Cambridge U., Inst. of Astron.\)](#). 1977. 24 pp.

Published in **Mon.Not.Roy.Astron.Soc. 179 (1977) 433-456**

## 15. Gamma ray bursts

[158 citations by astro-ph eprints in 2017](#)

The Swift Gamma-Ray Burst Mission

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

Published in [Astrophys.J. 611 \(2004\) 1005-1020](#), Erratum: [Astrophys.J. 621 \(2005\) 558](#)

DOI: [10.1086/422091](https://doi.org/10.1086/422091), [10.1086/427409](https://doi.org/10.1086/427409)

e-Print: [astro-ph/0405233](#) | [PDF](#)

[131 citations by astro-ph eprints in 2017](#)

Short-Duration Gamma-Ray Bursts

[Edo Berger \(Harvard-Smithsonian Ctr. Astrophys.\). Nov 11, 2013.](#) 63 pp.

Published in [Ann.Rev.Astron.Astrophys. 52 \(2014\) 43-105](#)

DOI: [10.1146/annurev-astro-081913-035926](https://doi.org/10.1146/annurev-astro-081913-035926)

e-Print: [arXiv:1311.2603](#) [astro-ph.HE] | [PDF](#)

## 16. Theory of neutron star mergers

[153 citations by astro-ph eprints in 2017](#)

Nucleosynthesis, Neutrino Bursts and Gamma-Rays from Coalescing Neutron Stars

[David Eichler \(Ben Gurion U. of Negev & Maryland U.\), Mario Livio \(Technion\), Tsvi Piran \(Hebrew U. & Princeton U. Observ.\), David N. Schramm \(Chicago U. & Fermilab\)](#). Mar 1989. 7 pp.

Published in [Nature 340 \(1989\) 126-128](#)

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DOI: [10.1038/340126a0](https://doi.org/10.1038/340126a0)

[136 citations by astro-ph eprints in 2017](#)

Transient events from neutron star mergers

[Li-Xin Li, Bohdan Paczynski](#). Jul 1998. 13 pp.

Published in [Astrophys.J. 507 \(1998\) L59](#)

POPE-772

DOI: [10.1086/311680](https://doi.org/10.1086/311680)

e-Print: [astro-ph/9807272](#) | [PDF](#)

## 17. Unified model of active galactic nuclei (supermassive black holes)

[145 citations by astro-ph eprints in 2017](#)

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.

Published in [Publ.Astron.Soc.Pac. 107 \(1995\) 803](#)

DOI: [10.1086/133630](https://doi.org/10.1086/133630)

e-Print: [astro-ph/9506063](#) | [PDF](#)

## **18. Supermassive black hole and galaxy coevolution**

[44](#) citations by astro-ph eprints in 2017

Coevolution (Or Not) of Supermassive Black Holes and Host Galaxies

[John Kormendy](#), [Luis C. Ho](#). Apr 29, 2013. 143 pp.

Published in [Ann.Rev.Astron.Astrophys. 51 \(2013\) 511-653](#)

DOI: [10.1146/annurev-astro-082708-101811](https://doi.org/10.1146/annurev-astro-082708-101811)

e-Print: [arXiv:1304.7762](#) [astro-ph.CO] | [PDF](#)

## **19. Gravitational weak lensing**

[142](#) citations by astro-ph eprints in 2017

KiDS-450: Cosmological parameter constraints from tomographic weak gravitational lensing

[H. Hildebrandt et al.](#). Jun 16, 2016. 48 pp.

Published in [Mon.Not.Roy.Astron.Soc. 465 \(2017\) 1454](#)

DOI: [10.1093/mnras/stw2805](https://doi.org/10.1093/mnras/stw2805)

e-Print: [arXiv:1606.05338](#) [astro-ph.CO] | [PDF](#)

[134](#) citations by astro-ph eprints in 2017

Weak gravitational lensing

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

Published in [Phys.Rept. 340 \(2001\) 291-472](#)

DOI: [10.1016/S0370-1573\(00\)00082-X](https://doi.org/10.1016/S0370-1573(00)00082-X)

e-Print: [astro-ph/9912508](#) | [PDF](#)

## **20. Star formation history**

[134](#) citations by astro-ph eprints in 2017

Cosmic Star Formation History

[Piero Madau](#), [Mark Dickinson](#). Feb 28, 2014. 72 pp.

Published in [Ann.Rev.Astron.Astrophys. 52 \(2014\) 415-486](#)

DOI: [10.1146/annurev-astro-081811-125615](https://doi.org/10.1146/annurev-astro-081811-125615)

e-Print: [arXiv:1403.0007](#) [astro-ph.CO] | [PDF](#)

[130](#) citations by astro-ph eprints in 2017

The Average Star Formation Histories of Galaxies in Dark Matter Halos from  $z=0-8$

[Peter S. Behroozi](#), [Risa H. Wechsler](#), [Charlie Conroy](#). Jul 2012. 36 pp.

Published in [Astrophys.J. 770 \(2013\) 57](#)

DOI: [10.1088/0004-637X/770/1/57](https://doi.org/10.1088/0004-637X/770/1/57)

e-Print: [arXiv:1207.6105](#) [astro-ph.CO] | [PDF](#)

## **21. Discovery of fast radio bursts**

[123](#) citations by astro-ph eprints in 2017

A bright millisecond radio burst of extragalactic origin

[D.R. Lorimer](#), [M. Bailes](#), [M.A. McLaughlin](#), [D.J. Narkevic](#), [F. Crawford](#). Sep 2007. 18 pp.

Published in [Science 318 \(2007\) 777](#)

DOI: [10.1126/science.1147532](https://doi.org/10.1126/science.1147532)

e-Print: [arXiv:0709.4301](https://arxiv.org/abs/0709.4301) [astro-ph] | [PDF](#)

## 22. The missing satellite problem

[112](#) citations by astro-ph eprints in 2017

Where are the missing Galactic satellites?

[Anatoly A. Klypin](#), [Andrey V. Kravtsov](#), [Octavio Valenzuela](#) ([New Mexico State U.](#)), [Francisco Prada](#) ([Observ. Astron. Natl., Ensenada](#)). Jan 1999. 10 pp.

Published in [Astrophys.J. 522 \(1999\) 82-92](#)

DOI: [10.1086/307643](https://doi.org/10.1086/307643)

e-Print: [astro-ph/9901240](https://arxiv.org/abs/astro-ph/9901240) | [PDF](#)