

Dr. Florian Beutler

CONTACT INFORMATION

Institute of Cosmology and Gravitation
University of Portsmouth
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RESEARCH INTERESTS

- Observational cosmology and large scale structure of the Universe: Primarily baryon acoustic oscillations, redshift space distortions, neutrino cosmology, perturbation theory applications to LSS and halo occupation distribution.

PROFESSIONAL EXPERIENCE

- Royal Society Fellowship (URF) (January 2018 - present).
- Ernest Rutherford Fellowship (June 2017 - January 2018), Institute of Cosmology and Gravitation, University of Portsmouth.
- Research Fellow, 5 year appointment (February 2016 to June 2017), Institute of Cosmology and Gravitation, University of Portsmouth.
- Postdoctoral Fellow, 3.5 year appointment (October 2012 to 2016), Lawrence Berkeley National Laboratory, Berkeley, CA, USA.

EDUCATION

University of Western Australia, Perth, Australia

PhD, Astrophysics/Cosmology (Graduated September 2012)

- Thesis Topic: Cosmology with the 6-degree Field Galaxy Survey
- Supervisors: Associate Professor Chris Blake, Professor Lister Staveley-Smith, Professor Peter Quinn, Dr. Heath Jones
- Scholarship: IPRS/SIRF scholarship

University of Heidelberg, Heidelberg, Germany

Diploma (equiv. to Master), Physics (Graduated October 2008)

- Thesis Topic: Theoretical modeling of hadron production in heavy ion and elementary particle collision
- Supervisor: Professor Johanna Stachel

Bachelor, Computer Science (Graduated October 2008)

Graduation from secondary school, Schorndorf, Germany, July 2003 (Abitur: best student of the year).

ACADEMIC EXPERIENCE

Project Supervision

- Main supervisor of PhD student: Paul Carter (September 2015 to present)
- Co-supervision of student projects: Chirag Modi (July 2014 to February 2016), Eric Aldabe (January 2014 to September 2014)

Collaboration memberships

- Member of the [Euclid collaboration](#). I am co-chair of the Euclid galaxy clustering working group and lead of the Euclid Internal Data work package for Spectroscopic visibility mask and Sample Selection.
- Member of the [DESI collaboration](#).
- Member of the [eBOSS collaboration](#).
- Member of the [Taipan collaboration](#).

Grants and Awards

- Royal Society research grant (£150 000), 2018
- Royal Society enhancement award (£95 000), 2017
- Royal Society University Research Fellowship (£500 000 – 800 000), 2017
- ICG Achievement award (£2000), 2017
- Ernest Rutherford Fellowship (£500 000), 2017
- UWA publication award - special commendation (AU\$250), 2012
- UWA Overseas Travel Award (AU\$1850), 2012
- Australian Society of Astronomy (ASA) travel award (AU\$1000), 2011
- Graduate Research School Travel (GRST) award (AU\$5000), 2011
- Australian Society of Astronomy (ASA) meeting, best student poster prize (AU\$100), 2011
- AAO top-up scholarship (AU\$15000), 2009-2012
- SKA top-up scholarship (AU\$18000), 2009-2012
- International Postgraduate Research Scholarship (IPRS), 2009-2012

Journal refereeing

- Referee for the Astrophysical Journal, since 2012
- Referee for MNRAS, since 2012
- Referee for JCAP, since 2014
- Referee for “Welt der Physik”, since 2014
- Referee for Physical Review D, since 2015

MEDIA

- I co-organized the media release connected to the BOSS DR12 data release, see for example [this article](#).
- Combined with the publication of the BAO analysis in the 6-degree Field Galaxy Survey, I co-organized a media release, which lead to more than 100 print and online articles in about 20 countries.
- Invitation to the TED@Sydney Young talent competition, see talk online [here](#).

BENTY-FIELDS

In 2015 I co-founded the academic networking website [benty-fields.com](#) and I am now its main developer. The website offers a journal club organiser, a fast arXiv search engine based on elasticsearch, a user-friendly environment to read arXiv papers and an academic job market. We now have more than 1500 users and host more than 100 journal clubs.

SKILLS

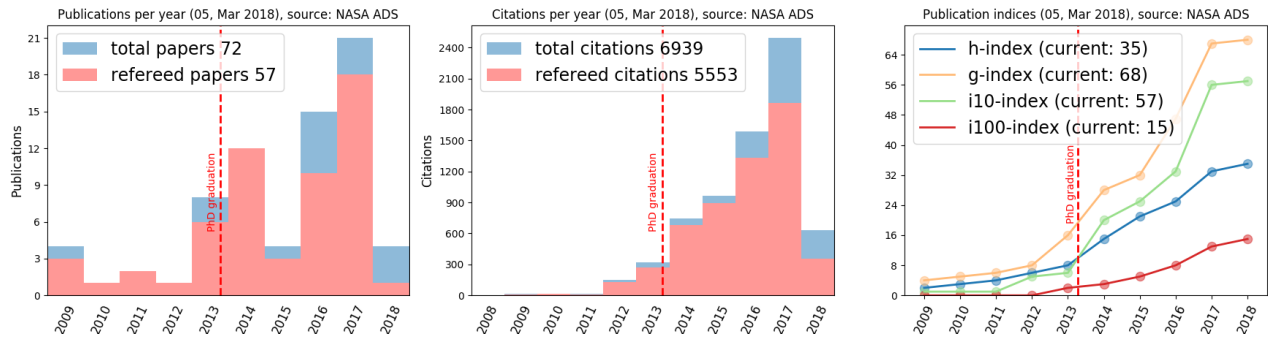
Extensive experience with several programming languages including C/C++, Python, Fortran, root, HTML, openCL, OpenGL, L^AT_EX, flask, SQL, MySQL, SQLAlchemy, postgresSQL, elasticsearch, javascript as well as parallel programming tools like MPI, openMP

I speak German and English fluently and have basic knowledge of French

SELECTED PRESENTATIONS

1. I have been invited to give seminars and colloquia at John Moore University (05/2017), Stanford University (03/2017), University of Amsterdam (12/2016), EPFL Lausanne (11/2016), MPA Munich (10/2016), DAMTP Cambridge (04/2016), Queen Mary University London (03/2016), UCL London (04/2016), Fermilab (11/2015), SLAC Stanford (02/2014), CfA Boston (02/2012), LBNL Berkeley (02/2012)
2. Invited speaker for the ‘Nonlinear evolution of the large scale structure of the Universe: Theory meets Expectations’ conference at the IAP, Paris (05/2016)

3. Invited speaker for the ‘Cosmic flows’ workshop at the Perimeter Institute, Waterloo, Canada (09/2015)
4. Invited lecturer for the Andean Cosmology summer school in Bogota, Columbia (4 days of lectures, 2 hours each, 07/2015)
5. Invited to a lecture series at University of British Columbia, Simon Fraser University, Herzberg Institute and University of Victoria (03/2015)
6. Invited for a review lecture on Baryon Acoustic Oscillations and Redshift Space Distortion, Santa Fe Cosmology Workshop, New Mexico (07/2014)
7. TED@Sydney Young talent competition, Sydney, Australia (05/2012)
(<http://www.youtube.com/watch?v=TUorF-2e08k>)
8. PhD summary talk, AAS, Austin (01/2012)



I played a major role in the science contributing to 39 of the 72 publications, the others being collaboration papers where input was through collaboration activity including editing draft papers and contributions to producing the data sets including both management and practical work. h-index = 35 (i.e. 35 papers with > 35 citations), with 15 papers having more than 100 citations (source: NASA ads).

First author publications and alphabetic papers with major contributions:

1. *Constraining the relative velocity effect using the Baryon Oscillation Spectroscopic Survey*
Florian Beutler, Uros Seljak, Zvonimir Vlah
Monthly Notices of the Royal Astronomical Society, 470, 2723 (2017)
2. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample*
Shadab Alam, Metin Ata, Stephen Bailey, **Florian Beutler**, Dmitry Bizyaev, Jonathan A. Blazek, Adam S. Bolton, Joel R. Brownstein +64 co-authors
Monthly Notices of the Royal Astronomical Society, 470, 2617 (2017) (**202 citations** on NASA ADS)
contribution: I contributed the Fourier-space BAO constraints which this paper combines with the configuration-space results leading to the final BOSS DR12 BAO constraints. I also contributed the Fourier-space RSD constraints which this paper combines with three other RSD studies of this datasets for the final BOSS DR12 RSD result.
3. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Anisotropic galaxy clustering in Fourier-space*
Florian Beutler, Hee-Jong Seo, Shun Saito, Chia-Hsun Chuang, Antonio J. Cuesta, Daniel J. Eisenstein, Héctor Gil-Marín, Jan Niklas Grieb +15 co-authors
Monthly Notices of the Royal Astronomical Society, 466, 2242 (2017)
4. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in Fourier-space*
Florian Beutler, Hee-Jong Seo, Ashley J. Ross, Patrick McDonald, Shun Saito, Adam S. Bolton, Joel R. Brownstein, Chia-Hsun Chuang +21 co-authors
Monthly Notices of the Royal Astronomical Society, 464, 3409 (2017)
5. *The BOSS-WiggleZ overlap region I: Baryon Acoustic Oscillations*
Florian Beutler, Chris Blake, Jun Koda, Felipe Marin, Hee-Jong Seo, Antonio J. Cuesta, Donald P. Schneider
Monthly Notices of the Royal Astronomical Society, 455, 3230 (2016)
6. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Signs of neutrino mass in current cosmological datasets*
Florian Beutler, Shun Saito, Joel R. Brownstein, Chia-Hsun Chuang, Antonio J. Cuesta, Will J. Percival, Ashley J. Ross, Nicholas P. Ross +7 co-authors
Monthly Notices of the Royal Astronomical Society, 444, 3501 (2014)

7. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Testing gravity with redshift-space distortions using the power spectrum multipoles*
Florian Beutler, Shun Saito, Hee-Jong Seo, Jon Brinkmann, Kyle S. Dawson, Daniel J. Eisenstein, Andreu Font-Ribera, Shirley Ho +10 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 443, 1065 (2014) (**187 citations** on NASA ADS)
8. *Cosmology with the 6-degree Field Galaxy Survey*
Florian Beutler
[\[arXiv:1303.3302\]](#)
9. *The 6dF Galaxy Survey: Dependence of halo occupation on stellar mass*
Florian Beutler, Chris Blake, Matthew Colless, D. Heath Jones, Lister Staveley-Smith, Lachlan Campbell, Quentin Parker, Will Saunders +1 co-author
[Monthly Notices of the Royal Astronomical Society](#), 429, 3604 (2013)
10. *The 6dF Galaxy Survey: $z \approx 0$ measurement of the growth rate and σ_8*
Florian Beutler, Chris Blake, Matthew Colless, D. Heath Jones, Lister Staveley-Smith, Gregory B. Poole, Lachlan Campbell, Quentin Parker +2 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 423, 3430 (2012) (**238 citations** on NASA ADS)
11. *The 6dF Galaxy Survey: Baryon Acoustic Oscillations and the Local Hubble Constant*
Florian Beutler, Chris Blake, Matthew Colless, D. Heath Jones, Lister Staveley-Smith, Lachlan Campbell, Quentin Parker, Will Saunders +1 co-author
[Monthly Notices of the Royal Astronomical Society](#), 416, 3017 (2011) (**862 citations** on NASA ADS)
12. *The canonical partition function for relativistic hadron gases*
F. Beutler, A. Andronic, P. Braun-Munzinger, K. Redlich, J. Stachel
[European Physical Journal C](#), 67, 439 (2010)
13. *Thermal description of hadron production in $e+e^-$ collisions*
Florian Beutler
[\[arXiv:0904.2885\]](#)
14. *Statistical hadronization of heavy flavor quarks in elementary collisions: successes and failures*
A. Andronic, **F. Beutler**, P. Braun-Munzinger, K. Redlich, J. Stachel
[Physics Letters B](#), 678, 350 (2009)
contribution: This publication is based on my Diploma thesis and I contributed 95% of the science content and 50% of the paper writing.
15. *Thermal description of hadron production in $e+e^-$ collisions revisited*
A. Andronic, **F. Beutler**, P. Braun-Munzinger, K. Redlich, J. Stachel
[Physics Letters B](#), 675, 312 (2009)
contribution: This publication is based on my Diploma thesis and I contributed 95% of the science content and 50% of the paper writing.

Further publications:

1. *The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: First measurement of Baryon Acoustic Oscillations between redshift 0.8 and 2.2*
Metin Ata, Falk Baumgarten, Julian Bautista, **Florian Beutler**, Dmitry Bizyaev, Michael R. Blanton, Jonathan A. Blazek, Adam S. Bolton +55 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 473, 4773 (2018)
2. *The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: Measuring the anisotropic Baryon Acoustic Oscillations with redshift weights*
Fangzhou Zhu, Nikhil Padmanabhan, Ashley J. Ross, Martin White, Will J. Percival, Rossana Ruggeri, Gong-bo Zhao, Dandan Wang +12 co-authors
[\[arXiv:1801.03038\]](#)

3. *The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measuring the evolution of the growth rate using redshift space distortions between redshift 0.8 and 2.2*
Rossana Ruggeri, Will J. Percival, Hector Gil Marin, **Florian Beutler**, Eva Maria Mueller, Fangzhou Zhu, Nikhil Padmanabhan, Gong-Bo Zhao +11 co-authors
[\[arXiv:1801.02891\]](#)
4. *The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: a tomographic measurement of cosmic structure growth and expansion rate based on optimal redshift weights*
Gong-Bo Zhao, Yuting Wang, Shun Saito, Héctor Gil-Marín, Will J. Percival, Dandan Wang, Chia-Hsun Chuang, Rossana Ruggeri +22 co-authors
[\[arXiv:1801.03043\]](#)
5. *nbodykit: an open-source, massively parallel toolkit for large-scale structure*
Nick Hand, Yu Feng, **Florian Beutler**, Yin Li, Chirag Modi, Uros Seljak, Zachary Slepian
[\[arXiv:1712.05834\]](#)
6. *Theoretical Systematics of Future Baryon Acoustic Oscillation Surveys*
Zhejie Ding, Hee-Jong Seo, Zvonimir Vlah, Yu Feng, Marcel Schmittfull, **Florian Beutler**
[\[arXiv:1708.01297\]](#)
7. *Imprints of Reionization in Galaxy Clustering*
Fabian Schmidt, **Florian Beutler**
Physical Review D, 96, 083533 (2017)
8. *Extending the modeling of the anisotropic galaxy power spectrum to $k = 0.4 \text{ hMpc}^{-1}$*
Nick Hand, Uros Seljak, **Florian Beutler**, Zvonimir Vlah
Journal of Cosmology and Astro-Particle Physics, 2017, 009 (2017)
9. *The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements from DR12 galaxy clustering – towards an accurate model*
Chia-Hsun Chuang, Marcos Pellejero-Ibanez, Sergio Rodríguez-Torres, Ashley J. Ross, Gong-bo Zhao, Yuting Wang, Antonio J. Cuesta, J. A. Rubiño-Martín +22 co-authors
Monthly Notices of the Royal Astronomical Society, 471, 2370 (2017)
10. *Dynamical dark energy in light of the latest observations*
Gong-Bo Zhao, Marco Raveri, Levon Pogosian, Yuting Wang, Robert G. Crittenden, Will J. Handley, Will J. Percival, **Florian Beutler** +18 co-authors
Nature Astronomy, 1, 627 (2017)
11. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: On the measurement of growth rate using galaxy correlation functions*
Siddharth Satpathy, Shadab Alam, Shirley Ho, Martin White, Neta A. Bahcall, **Florian Beutler**, Joel R. Brownstein, Chia-Hsun Chuang +11 co-authors
Monthly Notices of the Royal Astronomical Society, 469, 1369 (2017)
12. *The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the extended Baryon Oscillation Spectroscopic Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment*
Bela Abolfathi, D. S. Aguado, Gabriela Aguilar, Carlos Allende Prieto, Andres Almeida, Tonima Tasnim Ananna, Friedrich Anders, Scott F. Anderson +340 co-authors
[\[arXiv:1707.09322\]](#)
13. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Angular clustering tomography and its cosmological implications*
Salvador Salazar-Albornoz, Ariel G. Sanchez, Jan Niklas Grieb, Martin Crocce, Roman Scoccimarro, Shadab Alam, **Florian Beutler**, Joel R. Brownstein +12 co-authors
Monthly Notices of the Royal Astronomical Society, 468, 2938 (2017)
14. *Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe*
Michael R. Blanton, Matthew A. Bershady, Bela Abolfathi, Franco D. Albareti, Carlos Allende Prieto,

Andres Almeida, Javier Alonso-García, Friedrich Anders +345 co-authors
[The Astronomical Journal](#), 154, 28 (2017)

15. *The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmic Flows and Cosmic Web from Luminous Red Galaxies*
Metin Ata, Francisco-Shu Kitaura, Chia-Hsun Chuang, Sergio Rodríguez-Torres, Raul E. Angulo, Simone Ferraro, Hector Gil-Marín, Patrick McDonald +26 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 467, 3993 (2017)
16. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological implications of the Fourier space wedges of the final sample*
Jan Niklas Grieb, Ariel G. Sánchez, Salvador Salazar-Albornoz, Román Scoccimarro, Martín Crocce, Claudio Dalla Vecchia, Francesco Montesano, Héctor Gil-Marín +20 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 467, 2085 (2017)
17. *Consistency of the growth rate in different environments with the 6dF Galaxy Survey: measurement of the void-galaxy and galaxy-galaxy correlation functions*
Ixandra Achitouv, Chris Blake, Paul Carter, Jun Koda, **Florian Beutler**
[Physical Review D](#), 95, 083502 (2017)
18. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: tomographic BAO analysis of DR12 combined sample in Fourier space*
Gong-Bo Zhao, Yuting Wang, Shun Saito, Dandan Wang, Ashley J. Ross, **Florian Beutler**, Jan Niklas Grieb, Chia-Hsun Chuang +20 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 466, 762 (2017)
19. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: combining correlated Gaussian posterior distributions*
Ariel G. Sanchez, Jan Niklas Grieb, Salvador Salazar-Albornoz, Shadab Alam, **Florian Beutler**, Ashley J. Ross, Joel R. Brownstein, Chia-Hsun Chuang +12 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 464, 1493 (2017)
20. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological implications of the configuration-space clustering wedges*
Ariel G. Sanchez, Roman Scoccimarro, Martin Crocce, Jan Niklas Grieb, Salvador Salazar-Albornoz, Claudio DallaVecchia, Martha Lippich, **Florian Beutler** +16 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 464, 1640 (2017)
21. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Observational systematics and baryon acoustic oscillations in the correlation function*
Ashley J. Ross, **Florian Beutler**, Chia-Hsun Chuang, Marcos Pellejero-Ibanez, Hee-Jong Seo, Mariana Vargas-Magana, Antonio J. Cuesta, Will J. Percival +22 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 464, 1168 (2017)
22. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: constraining modified gravity*
Eva-Maria Mueller, Will Percival, Eric Linder, Shadab Alam, Gong-Bo Zhao, Ariel G. Sánchez, **Florian Beutler**
[\[arXiv:1612.00812\]](#)
23. *The DESI Experiment Part I: Science, Targeting, and Survey Design*
[DESI Collaboration], Amir Aghamousa, Jessica Aguilar, Steve Ahlen, Shadab Alam, Lori E. Allen, Carlos Allende Prieto, James Annis +285 co-authors
[\[arXiv:1611.00036\]](#) (**117 citations** on NASA ADS)
24. *The DESI Experiment Part II: Instrument Design*
[DESI Collaboration], Amir Aghamousa, Jessica Aguilar, Steve Ahlen, Shadab Alam, Lori E. Allen, Carlos Allende Prieto, James Annis +285 co-authors
[\[arXiv:1611.00037\]](#)

25. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: theoretical systematics and Baryon Acoustic Oscillations in the galaxy correlation function*
Mariana Vargas-Magaña, Shirley Ho, Antonio J. Cuesta, Ross O’Connell, Ashley J. Ross, Daniel J. Eisenstein, Will J. Percival, Jan Niklas Grieb +13 co-authors
[\[arXiv:1610.03506\]](#)
26. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements from CMASS anisotropic galaxy clustering*
Chia-Hsun Chuang, Francisco Prada, Marcos Pellejero-Ibanez, **Florian Beutler**, Antonio J. Cuesta, Daniel J. Eisenstein, Stephanie Escoffier, Shirley Ho +18 co-authors
Monthly Notices of the Royal Astronomical Society, 461, 3781 (2016)
27. *Modeling the reconstructed BAO in Fourier space*
Hee-Jong Seo, **Florian Beutler**, Ashley J. Ross, Shun Saito
Monthly Notices of the Royal Astronomical Society, 460, 2453 (2016)
28. *The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: double-probe measurements from BOSS galaxy clustering & Planck data – towards an analysis without informative priors*
Marcos Pellejero-Ibanez, Chia-Hsun Chuang, J. A. Rubiño-Martín, Antonio J. Cuesta, Yuting Wang, Gong-bo Zhao, Ashley J. Ross, Sergio Rodríguez-Torres +23 co-authors
[\[arXiv:1607.03152\]](#)
29. *Fast and accurate mock catalogue generation for low-mass galaxies*
Jun Koda, Chris Blake, **Florian Beutler**, Eyal Kazin, Felipe Marin
Monthly Notices of the Royal Astronomical Society, 459, 2118 (2016)
30. *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, Mariana Vargas-Magaña, **Florian Beutler**, Adam S. Bolton, Joel R. Brownstein, Daniel J. Eisenstein, Héctor Gil-Marín, Shirley Ho +15 co-authors
Monthly Notices of the Royal Astronomical Society, 457, 1770 (2016)
31. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: mock galaxy catalogues for the BOSS Final Data Release*
Francisco-Shu Kitaura, Sergio Rodríguez-Torres, Chia-Hsun Chuang, Cheng Zhao, Francisco Prada, Héctor Gil-Marín, Hong Guo, Gustavo Yepes +15 co-authors
Monthly Notices of the Royal Astronomical Society, 456, 4156 (2016)
32. *The BOSS-WiggleZ overlap region II: dependence of cosmic growth on galaxy type*
Felipe A. Marín, **Florian Beutler**, Chris Blake, Jun Koda, Eyal Kazin, Donald P. Schneider
Monthly Notices of the Royal Astronomical Society, 455, 4046 (2016)
33. *The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Overview and Early Data*
Kyle S. Dawson, Jean-Paul Kneib, Will J. Percival, Shadab Alam, Franco D. Albareti, Scott F. Anderson, Eric Armengaud, Eric Aubourg +138 co-authors
The Astronomical Journal, 151, 44 (2016) (**151 citations** on NASA ADS)
34. *The 6dF Galaxy Survey: Bulk Flows on $50 - 70h^{-1}$ Mpc scales*
Morag I. Scrimgeour, Tamara M. Davis, Chris Blake, Lister Staveley-Smith, Christina Magoulas, Christopher M. Springob, **Florian Beutler**, Matthew Colless +7 co-authors
Monthly Notices of the Royal Astronomical Society, 455, 386 (2016)
35. *SDSS-III Baryon Oscillation Spectroscopic Survey Data Release 12: galaxy target selection and large scale structure catalogues*
Beth Reid, Shirley Ho, Nikhil Padmanabhan, Will J. Percival, Jeremy Tinker, Rita Tojeiro, Martin White, Daniel J. Eisenstein +34 co-authors
Monthly Notices of the Royal Astronomical Society, 455, 1553 (2016)
36. *The large-scale 3-point correlation function of the SDSS BOSS DR12 CMASS galaxies*
Zachary Slepian, Daniel J. Eisenstein, **Florian Beutler**, Antonio J. Cuesta, Jian Ge, Héctor Gil-Marín,

- Shirley Ho, Franciso-Shu Kitaura +10 co-authors
[arXiv:1512.02231]
37. *Eulerian BAO Reconstructions and N-Point Statistics*
Marcel Schmittfull, Yu Feng, **Florian Beutler**, Blake Sherwin, Man Yat Chu
Physical Review D, 92, 123522 (2015)
 38. *Cosmological implications of baryon acoustic oscillation (BAO) measurements*
Éric Aubourg, Stephen Bailey, Julian E. Bautista, **Florian Beutler**, Vaishali Bhardwaj, Dmitry Bizyaev, Michael Blanton, Michael Blomqvist +85 co-authors
Physical Review D, 92, 123516 (2015) (**213 citations** on NASA ADS)
 39. *The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III*
Shadab Alam, Franco D. Albareti, Carlos Allende Prieto, F. Anders, Scott F. Anderson, Brett H. Andrews, Eric Armengaud, Éric Aubourg +266 co-authors
The Astrophysical Journal Supplement Series, 219, 12 (2015) (**767 citations** on NASA ADS)
 40. *The 6dF Galaxy Survey: Fundamental Plane Data*
Lachlan A. Campbell, John R. Lucey, Matthew Colless, D. Heath Jones, Christopher M. Springob, Christina Magoulas, Robert N. Proctor, Jeremy R. Mould +8 co-authors
Monthly Notices of the Royal Astronomical Society, 443, 1231 (2014)
 41. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Baryon Acoustic Oscillations in the Data Release 10 and 11 galaxy samples*
Lauren Anderson, Eric Aubourg, Stephen Bailey, **Florian Beutler**, Vaishali Bhardwaj, Michael Blanton, Adam S. Bolton, J. Brinkmann +57 co-authors
Monthly Notices of the Royal Astronomical Society, 441, 24 (2014) (**675 citations** on NASA ADS)
 42. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological implications of the full shape of the clustering wedges in the data release 10 and 11 galaxy samples*
Ariel G. Sanchez, Francesco Montesano, Eyal A. Kazin, Eric Aubourg, **Florian Beutler**, Jon Brinkmann, Joel R. Brownstein, Antonio J. Cuesta +20 co-authors
Monthly Notices of the Royal Astronomical Society, 440, 2692 (2014)
 43. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: galaxy clustering measurements in the low redshift sample of Data Release 11*
Rita Tojeiro, Ashley J. Ross, Angela Burden, Lado Samushia, Marc Manera, Will J. Percival, **Florian Beutler**, Antonio J. Cuesta +14 co-authors
Monthly Notices of the Royal Astronomical Society, 440, 2222 (2014)
 44. *Quasar-Lyman Forest Cross-Correlation from BOSS DR11 : Baryon Acoustic Oscillations*
Andreu Font-Ribera, David Kirkby, Nicolas Busca, Jordi Miralda-Escudé, Nicholas P. Ross, Anže Slosar, Jim Rich, Éric Aubourg +35 co-authors
Journal of Cosmology and Astro-Particle Physics, 2014, 027 (2014) (**167 citations** on NASA ADS)
 45. *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Including covariance matrix errors*
Will J. Percival, Ashley J. Ross, Ariel G. Sanchez, Lado Samushia, Angela Burden, Robert Crittenden, Antonio J. Cuesta, Mariana Vargas Magana +14 co-authors
Monthly Notices of the Royal Astronomical Society, 439, 2531 (2014) (**104 citations** on NASA ADS)
 46. *The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey (BOSS): measuring growth rate and geometry with anisotropic clustering*
Lado Samushia, Beth A. Reid, Martin White, Will J. Percival, Antonio J. Cuesta, Gong-Bo Zhao, Ashley J. Ross, Marc Manera +22 co-authors
Monthly Notices of the Royal Astronomical Society, 439, 3504 (2014) (**187 citations** on NASA ADS)
 47. *The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment*
Christopher P. Ahn, Rachael Alexandroff, Carlos Allende Prieto, Friedrich Anders, Scott F. Anderson, Timothy Anderton, Brett H. Andrews, Éric Aubourg +227 co-authors
The Astrophysical Journal Supplement Series, 211, 17 (2014) (**628 citations** on NASA ADS)

48. *The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Measuring D_A and H at $z=0.57$ from the Baryon Acoustic Peak in the Data Release 9 Spectroscopic Galaxy Sample*
Lauren Anderson, Eric Aubourg, Stephen Bailey, **Florian Beutler**, Adam S. Bolton, J. Brinkmann, Joel R. Brownstein, Chia-Hsun Chuang +30 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 439, 83 (2014) (**136 citations** on NASA ADS)
49. *The Clustering of Galaxies in the SDSS-III DR10 Baryon Oscillation Spectroscopic Survey: No Detectable Colour Dependence of Distance Scale or Growth Rate Measurements*
Ashley J. Ross, Lado Samushia, Angela Burden, Will J. Percival, Rita Tojeiro, Marc Manera, **Florian Beutler**, J. Brinkmann +22 co-authors
[Monthly Notices of the Royal Astronomical Society](#), 437, 1109 (2014)
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