

List of publications

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Refereed Journal Articles

10. *Bayesian optimisation for likelihood-free cosmological inference*
F. Leclercq
Physical Review D **98**, 063511 (2018), arXiv:1805.07152 [astro-ph.CO] (citations: **3**)
9. *The phase-space structure of nearby dark matter as constrained by the SDSS*
F. Leclercq, J. Jasche, G. Lavaux, B. Wandelt, W. Percival
JCAP **6**, 49 (2017), arXiv:1601.00093 [astro-ph.CO] (citations: **8**)
8. *Cosmological N-body simulations including radiation perturbations*
J. Brandbyge, C. Rampf, T. Tram, F. Leclercq, C. Fidler, S. Hannestad
MNRAS Letters **466**, L68 (2017), arXiv:1610.04236 [astro-ph.CO] (citations: **12**)
7. *Comparing cosmic web classifiers using information theory*
F. Leclercq, G. Lavaux, J. Jasche, B. Wandelt
JCAP **8**, 27 (2016), arXiv:1606.06758 [astro-ph.CO] (citations: **10**)
6. *Cosmic web-type classification using decision theory*
F. Leclercq, J. Jasche, B. Wandelt
A&A Letters **576**, L17 (2015), arXiv:1503.00730 [astro-ph.CO] (citations: **15**)
5. *Bayesian analysis of the dynamic cosmic web in the SDSS galaxy survey*
F. Leclercq, J. Jasche, B. Wandelt
JCAP **6**, 15 (2015), arXiv:1502.02690 [astro-ph.CO] (citations: **30**)
4. *Dark matter voids in the SDSS galaxy survey*
F. Leclercq, J. Jasche, P. M. Sutter, N. Hamaus, B. Wandelt
JCAP **3**, 47 (2015), arXiv:1410.0355 [astro-ph.CO] (citations: **27**)
3. *Past and present cosmic structure in the SDSS DR7 main sample*
J. Jasche, F. Leclercq, B. D. Wandelt
JCAP **1**, 36 (2015), arXiv:1409.6308 [astro-ph.CO] (citations: **38**)
2. *One-point remapping of Lagrangian perturbation theory in the mildly non-linear regime of cosmic structure formation*
F. Leclercq, J. Jasche, H. Gil-Marín, B. Wandelt
JCAP **11**, 48 (2013), arXiv:1305.4642 [astro-ph.CO] (citations: **24**)
1. *Main Sequence Stars with Asymmetric Dark Matter*
F. Iocco, M. Taoso, F. Leclercq, G. Meynet
Physical Review Letters **108**, 061301 (2012), arXiv:1201.5387 [astro-ph.SR] (citations: **30**)

Other Refereed Publications

1. *One-point statistics of the Lagrangian displacement field*
Addendum to *One-point remapping of Lagrangian perturbation theory in the mildly non-linear regime of cosmic structure formation*
F. Leclercq, J. Jasche, B. Wandelt
JCAP **4**, 26 (2015), arXiv:1507.08664 [astro-ph.CO] (citations: **2**)

- Conference Proceedings**
4. *Probabilistic cartography of the large-scale structure*
F. Leclercq, J. Jasche, G. Lavaux, B. Wandelt
Proceedings of the “Rencontres du Vietnam” 2015, Cosmology 50 years after CMB discovery, August 16-22, 2015, Quy Nhon, Vietnam
[arXiv:1512.02242](#) [[astro-ph.CO](#)] (citations: **2**)
 3. *Bayesian inference of the initial conditions from large-scale structure surveys*
F. Leclercq
Proceedings of the IAU Symposium 308, “The Zel’dovich Universe: Genesis and Growth of the Cosmic Web”, June 23-28, 2014, Tallinn, Estonia
[doi:10.1017/S1743921316009984](#), [arXiv:1410.2271](#) [[astro-ph.CO](#)]
 2. *Bayesian large-scale structure inference: initial conditions and the cosmic web*
F. Leclercq, B. Wandelt
Proceedings of the IAU Symposium 306, “Statistical Challenges in 21st Cosmology”, May 25-29, Lisbon, Portugal
[doi:10.1017/S1743921314011120](#), [arXiv:1410.1546](#) [[astro-ph.CO](#)] (citation: **1**)
 1. *Bayesian inference of dark matter voids in galaxy surveys*
F. Leclercq
Proceedings of the “Rencontres de Moriond”, Cosmology session 2014, March 22-29, 2014, La Thuile, Italy
[arXiv:1410.0865](#) [[astro-ph.CO](#)]
- Book Chapters**
1. *Cosmology: from theory to data, from data to theory*
F. Leclercq, A. Pisani, B. Wandelt
Lectures given at the International School of Physics Enrico Fermi “New Horizons for Observational Cosmology”, June 30-July 6, 2013, Varenna, Italy
[doi:10.3254/978-1-61499-476-3-189](#), [arXiv:1403.1260](#) [[astro-ph.CO](#)] (citations: **3**)
- PhD Thesis**
- Bayesian large-scale structure inference and cosmic web analysis*
F. Leclercq
Institut d’Astrophysique de Paris, 2015
[tel-01265548](#), [arXiv:1512.04985](#) [[astro-ph.CO](#)] (citations: **7**)
- Public Data and Codes**
2. SIMBELMYNĚ
A hierarchical probabilistic simulator to generate synthetic galaxy survey data
F. Leclercq
Additional contributions from: B. Faure, M. M. Ali Mohamed
[BitBucket:florent-leclercq/simbelmyne](#), <http://simbelmyne.florent-leclercq.eu>
 1. *The BORG SDSS data release*
Public release of data products following the BORG SDSS analysis
F. Leclercq, J. Jasche, B. Wandelt
Additional contributions from: N. Hamaus, G. Lavaux, P. M. Sutter
[doi:10.5281/zenodo.1455729](#), [GitHub:florent-leclercq/borg_sdss_data_release](#), <http://data.florent-leclercq.eu>

Source of citation counts: [NASA ADS](#), 7 January 2019.