

# List of Publications

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## 1 Research papers (refereed, Planck & Euclid only direct contributions)

138. F. Hassani, J. Adamek, R. Durrer and M. Kunz, *Biased tracers as a probe of beyond- $\Lambda$ CDM cosmologies*, [arXiv:2206.14179](#), DOI: [10.1051/0004-6361/202244405](#), A&A forthcoming (2022).
137. V. Nistane, M. Jalilvand, J. Carron, R. Durrer, and M. Kunz, *An Estimator for the lensing potential from galaxy number counts*, [arXiv:2201.04129](#), DOI: [10.1088/1475-7516/2022/06/024](#), JCAP **06**, 024 (2022).
136. F. Hassani, P. Shi, J. Adamek, M. Kunz and P. Wittwer, *A new non-linear instability for scalar fields*, [arXiv:2107.14215](#), DOI: [10.1103/PhysRevD.105.L021304](#), PRD **105**, L021304 (2022).
135. Euclid Collaboration, *Euclid preparation: XIX. Impact of magnification on photometric galaxy clustering*, [arXiv:2110.05435](#), DOI: [10.1051/0004-6361/202142419](#), A&A **662**, A93 (2022).
134. T. Nadolny, R. Durrer, M. Kunz and H. Padmanabhan, *A new test of the Cosmological Principle: measuring our peculiar velocity and the large scale anisotropy independently*, [arXiv:2106.05284](#), DOI: [10.1088/1475-7516/2021/11/009](#), JCAP **11**, 009 (2021).
133. S. Castello, S. Ilić and M. Kunz, *An updated dark energy view of inflation*, [arXiv:2104.15091](#), DOI: [10.1103/PhysRevD.104.023522](#), PRD **104**, 023522 (2021).
132. Euclid Collaboration, *The importance of galaxy clustering and weak lensing cross-correlations within the photometric Euclid survey*, [arXiv:2005.00055](#), DOI: [10.1051/0004-6361/202038313](#), A&A **643**, A70 (2021).
131. C.A.P. Bengaly, C. Clarkson, M. Kunz and R. Maartens, *Null tests of the concordance model in the era of Euclid and the SKA*, [arXiv:2007.04879](#), DOI: [10.1016/j.dark.2021.100856](#), Phys. Dark Univ. **33**, 100856 (2021).
130. A. Vafaei Sadr, B. A. Bassett and M. Kunz, *A flexible framework for anomaly Detection via dimensionality reduction*, DOI: [10.1007/s00521-021-05839-5](#), Neural Comput & Applic (2021).
129. F. Hassani, J. Adamek and M. Kunz, *Clustering dark energy imprints on cosmological observables of the gravitational field*, [arXiv:2007.04968](#), DOI: [10.1093/mnras/staa3589](#), Mon. Not. Royal Astron. Soc. (2020).
128. Euclid Collaboration, *Euclid preparation: VII. Forecast validation for Euclid cosmological probes*, [arXiv:1910.09273](#), DOI: [10.1051/0004-6361/202038071](#), A&A **642**, A191 (2020).
127. F. Hassani, B. L'Huillier, A. Shafieloo, M. Kunz and J. Adamek, *Parametrising non-linear dark energy perturbations*, [arXiv:1910.01105](#), DOI: [10.1088/1475-7516/2020/04/039](#), JCAP **04**, 039 (2020).
126. The Planck Collaboration, *Planck 2018 results. VI. Cosmological parameters*, [arXiv:1807.06209](#), DOI: [10.1051/0004-6361/201833910](#), A&A **641**, A6 (2020).
125. R. von Marttens, L. Lombriser, M. Kunz, V. Marra, L. Casarini, J. Alcaniz, *Dark degeneracy I: Dynamical or interacting dark energy?*, [arXiv:1911.02618](#), DOI: [10.1016/j.dark.2020.100490](#), Phys. Dark Univ. **28** 100490 (2020).
124. M. Jalilvand, B. Ghosh, E. Majerotto, B. Bose, R. Durrer and M. Kunz, *Non-linear contributions to angular power spectra*, [arXiv:1907.13109](#), DOI: [10.1103/PhysRevD.101.043530](#), PRD **101**, 043530 (2020).
123. S.H. Hansen, F. Hassani, L. Lombriser and M. Kunz, *Distinguishing cosmologies using the turn-around radius near galaxy clusters*, [arXiv:1906.04748](#), DOI: [10.1088/1475-7516/2020/01/048](#), JCAP **01**, 048 (2020).
122. M. Jalilvand, E. Majerotto, C. Bonvin, F. Lacasa, M. Kunz, W. Naidoo and K. Moodley, *A new estimator for gravitational lensing using galaxy and intensity mapping surveys*, [arXiv:1907.00071](#), DOI: [10.1103/PhysRevLett.124.031101](#), PRL **124**, 031101 (2020).

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111. L. Amendola, M. Kunz, I. D. Saltas and I. Sawicki, *The fate of large-scale structure in modified gravity after GW170817 and GRB170817A*, [arXiv:1711.04825](https://arxiv.org/abs/1711.04825), DOI: [10.1103/PhysRevLett.120.131101](https://doi.org/10.1103/PhysRevLett.120.131101), Phys. Rev. Lett. **120**, 121101 (2018).
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