

Rapport d'activité LPNHE 2024–2025

Liste de publications du groupe Cosmologie

1. Gan Gu, Xiaoma Wang, Yuting Wang et al. « Dynamical dark energy in light of the DESI DR2 baryonic acoustic oscillations measurements ». *Nature Astronomy* (sept. 2025). DOI : [10.1038/s41550-025-02669-6](https://doi.org/10.1038/s41550-025-02669-6). arXiv : [2504.06118](https://arxiv.org/abs/2504.06118) [[astro-ph.CO](#)]
2. Gan Gu, Xiaoma Wang, Yuting Wang et al. « Author Correction : Dynamical dark energy in light of the DESI DR2 baryonic acoustic oscillations measurements ». *Nature Astronomy* 9 (déc. 2025), p. 1898-1898. DOI : [10.1038/s41550-025-02698-1](https://doi.org/10.1038/s41550-025-02698-1)
3. David Rubin, Greg Aldering, Marc Betoule et al. « Union through UNITY : Cosmology with 2000 SNe Using a Unified Bayesian Framework ». *ApJ* 986.2, 231 (juin 2025), p. 231. DOI : [10.3847/1538-4357/adc0a5](https://doi.org/10.3847/1538-4357/adc0a5). arXiv : [2311.12098](https://arxiv.org/abs/2311.12098) [[astro-ph.CO](#)]
4. M. Ginolin, M. Rigault, M. Smith et al. « ZTF SN Ia DR2 : Environmental dependencies of stretch and luminosity for a volume-limited sample of 1000 type Ia supernovae ». *A&A* 695, A140 (mars 2025), A140. DOI : [10.1051/0004-6361/202450378](https://doi.org/10.1051/0004-6361/202450378). arXiv : [2405.20965](https://arxiv.org/abs/2405.20965) [[astro-ph.CO](#)]
5. M. Rigault, M. Smith, A. Goobar et al. « ZTF SN Ia DR2 : Overview ». *A&A* 694, A1 (fév. 2025), A1. DOI : [10.1051/0004-6361/202450388](https://doi.org/10.1051/0004-6361/202450388). arXiv : [2409.04346](https://arxiv.org/abs/2409.04346) [[astro-ph.CO](#)]
6. A. Townsend, J. Nordin, A. Sagués Carracedo et al. « Candidate strongly lensed type Ia supernovae in the Zwicky Transient Facility archive ». *A&A* 694, A146 (fév. 2025), A146. DOI : [10.1051/0004-6361/202451082](https://doi.org/10.1051/0004-6361/202451082). arXiv : [2405.18589](https://arxiv.org/abs/2405.18589) [[astro-ph.HE](#)]
7. M. Siudek, R. Pucha, M. Mezcua et al. « Value-added catalog of physical properties for more than 1.3 million galaxies from the DESI survey ». *A&A* 691, A308 (nov. 2024), A308. DOI : [10.1051/0004-6361/202451761](https://doi.org/10.1051/0004-6361/202451761). arXiv : [2409.19066](https://arxiv.org/abs/2409.19066) [[astro-ph.GA](#)]
8. Christoph Saulder, Yong-Seon Song, Minji Oh et al. « Studying baryon acoustic oscillations using photometric redshifts from the DESI Legacy Imaging survey DR9 ». *A&A* 695, A54 (mars 2025), A54. DOI : [10.1051/0004-6361/202452007](https://doi.org/10.1051/0004-6361/202452007). arXiv : [2501.10759](https://arxiv.org/abs/2501.10759) [[astro-ph.CO](#)]
9. J. R. Bermejo-Climent, R. Demina, A. Krolewski et al. « Constraints on primordial non-Gaussianity from the cross-correlation of DESI luminous red galaxies and Planck CMB lensing ». *A&A* 698, A177 (juin 2025), A177. DOI : [10.1051/0004-6361/202453446](https://doi.org/10.1051/0004-6361/202453446). arXiv : [2412.10279](https://arxiv.org/abs/2412.10279) [[astro-ph.CO](#)]
10. E. Fernández-García, R. Wojtak, F. Prada et al. « Missing components in Λ CDM from DESI Y1 baryonic acoustic oscillation measurements : Insights from redshift remapping ». *A&A*

- 701, A237 (sept. 2025), A237. DOI : [10.1051/0004-6361/202555033](https://doi.org/10.1051/0004-6361/202555033). arXiv : [2503.22469](https://arxiv.org/abs/2503.22469) [[astro-ph.CO](#)]
11. M. Siudek, M. Mezcua, C. Circosta et al. « Beyond traditional diagnostics : Identifying active galactic nuclei using spectral energy distribution fitting in DESI data ». *A&A* 700, A209 (août 2025), A209. DOI : [10.1051/0004-6361/202555463](https://doi.org/10.1051/0004-6361/202555463). arXiv : [2506.09143](https://arxiv.org/abs/2506.09143) [[astro-ph.GA](#)]
 12. Thierry Souverin, Jérémy Neveu, Marc Betoule et al. « StarDICE III : characterization of the photometric instrument with a collimated beam projector ». *RAS Techniques and Instruments* 4, rzaf010 (jan. 2025), rzaf010. DOI : [10.1093/rasti/rzaf010](https://doi.org/10.1093/rasti/rzaf010). arXiv : [2410.24173](https://arxiv.org/abs/2410.24173) [[astro-ph.IM](#)]
 13. Kélian Sommer, Bertrand Plez, Johann Cohen-Tanugi et al. « StarDICE II : Calibration of an Uncooled Infrared Thermal Camera for Atmospheric Gray Extinction Characterization ». *Sensors* 24.14, 4498 (juill. 2024), p. 4498. DOI : [10.3390/s24144498](https://doi.org/10.3390/s24144498)
 14. K. Sommer, J. Cohen-Tanugi, B. Plez et al. « Design and performance of a collimated beam projector for telescope transmission measurement using a broad-band light source ». *RAS Techniques and Instruments* 3.1 (jan. 2024), p. 125-142. DOI : [10.1093/rasti/rzae006](https://doi.org/10.1093/rasti/rzae006). arXiv : [2312.02835](https://arxiv.org/abs/2312.02835) [[astro-ph.IM](#)]
 15. M. Aubert, P. Rosnet, B. Popovic et al. « ZTF SN Ia DR2 : Exploring SN Ia properties in the vicinity of under-dense environments ». *A&A* 694, A7 (fév. 2025), A7. DOI : [10.1051/0004-6361/202450951](https://doi.org/10.1051/0004-6361/202450951). arXiv : [2406.11680](https://arxiv.org/abs/2406.11680) [[astro-ph.CO](#)]
 16. M. Rigault, M. Smith, N. Regnault et al. « ZTF SN Ia DR2 : Study of Type Ia supernova light-curve fits ». *A&A* 694, A2 (fév. 2025), A2. DOI : [10.1051/0004-6361/202450377](https://doi.org/10.1051/0004-6361/202450377). arXiv : [2406.02073](https://arxiv.org/abs/2406.02073) [[astro-ph.CO](#)]
 17. Valentin Crépel, Nicolas Regnault et Raquel Queiroz. « Chiral limit and origin of topological flat bands in twisted transition metal dichalcogenide homobilayers ». *Communications Physics* 7.1, 146 (déc. 2024), p. 146. DOI : [10.1038/s42005-024-01641-6](https://doi.org/10.1038/s42005-024-01641-6). arXiv : [2305.10477](https://arxiv.org/abs/2305.10477) [[cond-mat.mes-hall](#)]
 18. Jared Hand, A. G. Kim, G. Aldering et al. « An Agnostic Approach to Building Empirical Type Ia Supernova Light Curves : Evidence for Intrinsic Chromatic Flux Variation Using Nearby Supernova Factory Data ». *ApJ* 982.2, 110 (avr. 2025), p. 110. DOI : [10.3847/1538-4357/ad9f32](https://doi.org/10.3847/1538-4357/ad9f32). arXiv : [2505.07880](https://arxiv.org/abs/2505.07880) [[astro-ph.HE](#)]
 19. J. Neveu, V. Brémaud, P. Antilogus et al. « Slitless spectrophotometry with forward modelling : Principles and application to measuring atmospheric transmission ». *A&A* 684, A21 (avr. 2024), A21. DOI : [10.1051/0004-6361/202347422](https://doi.org/10.1051/0004-6361/202347422). arXiv : [2307.04898](https://arxiv.org/abs/2307.04898) [[astro-ph.IM](#)]
 20. Pierre Astier, Juan Estrada, Erika Hamden et al. « Special Section Guest Editorial : Image Sensors for Precision Astronomy ». *Journal of Astronomical Telescopes, Instruments, and Systems* 11, 011201 (jan. 2025), p. 011201. DOI : [10.1117/1.JATIS.11.1.011201](https://doi.org/10.1117/1.JATIS.11.1.011201)
 21. N. Jannsen, J. De Ridder, D. Seynaeve et al. « PlatoSim : an end-to-end PLATO camera simulator for modelling high-precision space-based photometry ». *A&A* 681, A18 (jan. 2024), A18. DOI : [10.1051/0004-6361/202346701](https://doi.org/10.1051/0004-6361/202346701). arXiv : [2310.06985](https://arxiv.org/abs/2310.06985) [[astro-ph.IM](#)]

22. Sara Maleubre, Daniel J. Eisenstein, Lehman H. Garrison et al. « Convergence of halo statistics : code comparison between ROCKSTAR and COMPASO using scale-free simulations ». *MNRAS* 527.3 (jan. 2024), p. 5603-5615. DOI : [10.1093/mnras/stad3569](https://doi.org/10.1093/mnras/stad3569). arXiv : [2308.00438](https://arxiv.org/abs/2308.00438) [[astro-ph.CO](#)]
23. M. Abdul Karim, J. Aguilar, S. Ahlen et al. « DESI DR2 results. II. Measurements of baryon acoustic oscillations and cosmological constraints ». *Phys. Rev. D* 112.8, 083515 (oct. 2025), p. 083515. DOI : [10.1103/tr6y-kpc6](https://doi.org/10.1103/tr6y-kpc6). arXiv : [2503.14738](https://arxiv.org/abs/2503.14738) [[astro-ph.CO](#)]
24. Martin White, A. Raichoor, Arjun Dey et al. « The clustering of Lyman Alpha Emitting galaxies at $z=2-3$ ». *J. Cosmology Astropart. Phys.* 2024.8, 020 (août 2024), p. 020. DOI : [10.1088/1475-7516/2024/08/020](https://doi.org/10.1088/1475-7516/2024/08/020). arXiv : [2406.01803](https://arxiv.org/abs/2406.01803) [[astro-ph.CO](#)]
25. Vanina Ruhlmann-Kleider, Christophe Yèche, Christophe Magneville et al. « High redshift LBGs from deep broadband imaging for future spectroscopic surveys ». *J. Cosmology Astropart. Phys.* 2024.8, 059 (août 2024), p. 059. DOI : [10.1088/1475-7516/2024/08/059](https://doi.org/10.1088/1475-7516/2024/08/059). arXiv : [2404.03569](https://arxiv.org/abs/2404.03569) [[astro-ph.CO](#)]
26. R. Calderon, K. Lodha, A. Shafieloo et al. « DESI 2024 : reconstructing dark energy using crossing statistics with DESI DR1 BAO data ». *J. Cosmology Astropart. Phys.* 2024.10, 048 (oct. 2024), p. 048. DOI : [10.1088/1475-7516/2024/10/048](https://doi.org/10.1088/1475-7516/2024/10/048). arXiv : [2405.04216](https://arxiv.org/abs/2405.04216) [[astro-ph.CO](#)]
27. Joshua Kim, Noah Sailer, Mathew S. Madhavacheril et al. « The Atacama Cosmology Telescope DR6 and DESI : structure formation over cosmic time with a measurement of the cross-correlation of CMB lensing and luminous red galaxies ». *J. Cosmology Astropart. Phys.* 2024.12, 022 (déc. 2024), p. 022. DOI : [10.1088/1475-7516/2024/12/022](https://doi.org/10.1088/1475-7516/2024/12/022). arXiv : [2407.04606](https://arxiv.org/abs/2407.04606) [[astro-ph.CO](#)]
28. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 IV : Baryon Acoustic Oscillations from the Lyman alpha forest ». *J. Cosmology Astropart. Phys.* 2025.1, 124 (jan. 2025), p. 124. DOI : [10.1088/1475-7516/2025/01/124](https://doi.org/10.1088/1475-7516/2025/01/124). arXiv : [2404.03001](https://arxiv.org/abs/2404.03001) [[astro-ph.CO](#)]
29. J. Yu, A. J. Ross, A. Rocher et al. « ELG spectroscopic systematics analysis of the DESI Data Release 1 ». *J. Cosmology Astropart. Phys.* 2025.1, 126 (jan. 2025), p. 126. DOI : [10.1088/1475-7516/2025/01/126](https://doi.org/10.1088/1475-7516/2025/01/126). arXiv : [2405.16657](https://arxiv.org/abs/2405.16657) [[astro-ph.CO](#)]
30. J. Lasker, A. Carnero Rosell, A. D. Myers et al. « Production of alternate realizations of DESI fiber assignment for unbiased clustering measurement in data and simulations ». *J. Cosmology Astropart. Phys.* 2025.1, 127 (jan. 2025), p. 127. DOI : [10.1088/1475-7516/2025/01/127](https://doi.org/10.1088/1475-7516/2025/01/127). arXiv : [2404.03006](https://arxiv.org/abs/2404.03006) [[astro-ph.CO](#)]
31. U. Andrade, J. Mena-Fernández, H. Awan et al. « Validating the galaxy and quasar catalog-level blinding scheme for the DESI 2024 analysis ». *J. Cosmology Astropart. Phys.* 2025.1, 128 (jan. 2025), p. 128. DOI : [10.1088/1475-7516/2025/01/128](https://doi.org/10.1088/1475-7516/2025/01/128). arXiv : [2404.07282](https://arxiv.org/abs/2404.07282) [[astro-ph.CO](#)]
32. Abby Bault, David Kirkby, Julien Guy et al. « Impact of systematic redshift errors on the cross-correlation of the Lyman- α forest with quasars at small scales using DESI Early Data ». *J. Cosmology Astropart. Phys.* 2025.1, 130 (jan. 2025), p. 130. DOI : [10.1088/1475-7516/2025/01/130](https://doi.org/10.1088/1475-7516/2025/01/130). arXiv : [2402.18009](https://arxiv.org/abs/2402.18009) [[astro-ph.CO](#)]

33. M. Pinon, A. de Mattia, P. McDonald et al. « Mitigation of DESI fiber assignment incompleteness effect on two-point clustering with small angular scale truncated estimators ». *J. Cosmology Astropart. Phys.* 2025.1, 131 (jan. 2025), p. 131. DOI : [10.1088/1475-7516/2025/01/131](https://doi.org/10.1088/1475-7516/2025/01/131). arXiv : [2406.04804](https://arxiv.org/abs/2406.04804) [[astro-ph.CO](#)]
34. C. Garcia-Quintero, J. Mena-Fernández, A. Rocher et al. « HOD-dependent systematics in Emission Line Galaxies for the DESI 2024 BAO analysis ». *J. Cosmology Astropart. Phys.* 2025.1, 132 (jan. 2025), p. 132. DOI : [10.1088/1475-7516/2025/01/132](https://doi.org/10.1088/1475-7516/2025/01/132). arXiv : [2404.03009](https://arxiv.org/abs/2404.03009) [[astro-ph.CO](#)]
35. J. Mena-Fernández, C. Garcia-Quintero, S. Yuan et al. « HOD-dependent systematics for luminous red galaxies in the DESI 2024 BAO analysis ». *J. Cosmology Astropart. Phys.* 2025.1, 133 (jan. 2025), p. 133. DOI : [10.1088/1475-7516/2025/01/133](https://doi.org/10.1088/1475-7516/2025/01/133). arXiv : [2404.03008](https://arxiv.org/abs/2404.03008) [[astro-ph.CO](#)]
36. M. Maus, Y. Lai, H. E. Noriega et al. « A comparison of effective field theory models of redshift space galaxy power spectra for DESI 2024 and future surveys ». *J. Cosmology Astropart. Phys.* 2025.1, 134 (jan. 2025), p. 134. DOI : [10.1088/1475-7516/2025/01/134](https://doi.org/10.1088/1475-7516/2025/01/134). arXiv : [2404.07272](https://arxiv.org/abs/2404.07272) [[astro-ph.CO](#)]
37. E. Chaussidon, A. de Mattia, C. Yèche et al. « Blinding scheme for the scale-dependence bias signature of local primordial non-Gaussianity for DESI 2024 ». *J. Cosmology Astropart. Phys.* 2025.1, 135 (jan. 2025), p. 135. DOI : [10.1088/1475-7516/2025/01/135](https://doi.org/10.1088/1475-7516/2025/01/135). arXiv : [2406.00191](https://arxiv.org/abs/2406.00191) [[astro-ph.CO](#)]
38. H. E. Noriega, A. Aviles, H. Gil-Marín et al. « Comparing Compressed and Full-Modeling analyses with FOLPS : implications for DESI 2024 and beyond ». *J. Cosmology Astropart. Phys.* 2025.1, 136 (jan. 2025), p. 136. DOI : [10.1088/1475-7516/2025/01/136](https://doi.org/10.1088/1475-7516/2025/01/136). arXiv : [2404.07269](https://arxiv.org/abs/2404.07269) [[astro-ph.CO](#)]
39. P. Martini, A. Cuceu, L. Ennesser et al. « Validation of the DESI 2024 Lyman alpha forest BAL masking strategy ». *J. Cosmology Astropart. Phys.* 2025.1, 137 (jan. 2025), p. 137. DOI : [10.1088/1475-7516/2025/01/137](https://doi.org/10.1088/1475-7516/2025/01/137). arXiv : [2405.09737](https://arxiv.org/abs/2405.09737) [[astro-ph.CO](#)]
40. M. Maus, S. Chen, M. White et al. « An analysis of parameter compression and Full-Modeling techniques with Velocileptors for DESI 2024 and beyond ». *J. Cosmology Astropart. Phys.* 2025.1, 138 (jan. 2025), p. 138. DOI : [10.1088/1475-7516/2025/01/138](https://doi.org/10.1088/1475-7516/2025/01/138). arXiv : [2404.07312](https://arxiv.org/abs/2404.07312) [[astro-ph.CO](#)]
41. Y. Lai, C. Howlett, M. Maus et al. « A comparison between ShapeFit compression and Full-Modelling method with PyBird for DESI 2024 and beyond ». *J. Cosmology Astropart. Phys.* 2025.1, 139 (jan. 2025), p. 139. DOI : [10.1088/1475-7516/2025/01/139](https://doi.org/10.1088/1475-7516/2025/01/139). arXiv : [2404.07283](https://arxiv.org/abs/2404.07283) [[astro-ph.CO](#)]
42. J. Guy, S. Gontcho A. Gontcho, E. Armengaud et al. « Characterization of contaminants in the Lyman-alpha forest auto-correlation with DESI ». *J. Cosmology Astropart. Phys.* 2025.1, 140 (jan. 2025), p. 140. DOI : [10.1088/1475-7516/2025/01/140](https://doi.org/10.1088/1475-7516/2025/01/140). arXiv : [2404.03003](https://arxiv.org/abs/2404.03003) [[astro-ph.CO](#)]
43. E. Paillas, Z. Ding, X. Chen et al. « Optimal reconstruction of baryon acoustic oscillations for DESI 2024 ». *J. Cosmology Astropart. Phys.* 2025.1, 142 (jan. 2025), p. 142. DOI : [10.1088/1475-7516/2025/01/142](https://doi.org/10.1088/1475-7516/2025/01/142). arXiv : [2404.03005](https://arxiv.org/abs/2404.03005) [[astro-ph.CO](#)]

44. Z. Ding, A. Variu, S. Alam et al. « Suppressing the sample variance of DESI-like galaxy clustering with fast simulations ». *J. Cosmology Astropart. Phys.* 2025.1, 143 (jan. 2025), p. 143. DOI : [10.1088/1475-7516/2025/01/143](https://doi.org/10.1088/1475-7516/2025/01/143). arXiv : [2404.03117](https://arxiv.org/abs/2404.03117) [[astro-ph.CO](#)]
45. A. Pérez-Fernández, L. Medina-Varela, R. Ruggeri et al. « Fiducial-cosmology-dependent systematics for the DESI 2024 BAO analysis ». *J. Cosmology Astropart. Phys.* 2025.1, 144 (jan. 2025), p. 144. DOI : [10.1088/1475-7516/2025/01/144](https://doi.org/10.1088/1475-7516/2025/01/144). arXiv : [2406.06085](https://arxiv.org/abs/2406.06085) [[astro-ph.CO](#)]
46. M. Rashkovetskyi, D. Forero-Sánchez, A. de Mattia et al. « Semi-analytical covariance matrices for two-point correlation function for DESI 2024 data ». *J. Cosmology Astropart. Phys.* 2025.1, 145 (jan. 2025), p. 145. DOI : [10.1088/1475-7516/2025/01/145](https://doi.org/10.1088/1475-7516/2025/01/145). arXiv : [2404.03007](https://arxiv.org/abs/2404.03007) [[astro-ph.CO](#)]
47. A. Krolewski, J. Yu, A. J. Ross et al. « Impact and mitigation of spectroscopic systematics on DESI DR1 clustering measurements ». *J. Cosmology Astropart. Phys.* 2025.1, 147 (jan. 2025), p. 147. DOI : [10.1088/1475-7516/2025/01/147](https://doi.org/10.1088/1475-7516/2025/01/147). arXiv : [2405.17208](https://arxiv.org/abs/2405.17208) [[astro-ph.CO](#)]
48. Andrei Cuceu, Hiram K. Herrera-Alcantar, Calum Gordon et al. « Validation of the DESI 2024 Ly α forest BAO analysis using synthetic datasets ». *J. Cosmology Astropart. Phys.* 2025.1, 148 (jan. 2025), p. 148. DOI : [10.1088/1475-7516/2025/01/148](https://doi.org/10.1088/1475-7516/2025/01/148). arXiv : [2404.03004](https://arxiv.org/abs/2404.03004) [[astro-ph.CO](#)]
49. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 VI : cosmological constraints from the measurements of baryon acoustic oscillations ». *J. Cosmology Astropart. Phys.* 2025.2, 021 (fév. 2025), p. 021. DOI : [10.1088/1475-7516/2025/02/021](https://doi.org/10.1088/1475-7516/2025/02/021). arXiv : [2404.03002](https://arxiv.org/abs/2404.03002) [[astro-ph.CO](#)]
50. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 III : baryon acoustic oscillations from galaxies and quasars ». *J. Cosmology Astropart. Phys.* 2025.4, 012 (avr. 2025), p. 012. DOI : [10.1088/1475-7516/2025/04/012](https://doi.org/10.1088/1475-7516/2025/04/012). arXiv : [2404.03000](https://arxiv.org/abs/2404.03000) [[astro-ph.CO](#)]
51. D. Forero-Sánchez, M. Rashkovetskyi, O. Alves et al. « Analytical and EZmock covariance validation for the DESI 2024 results ». *J. Cosmology Astropart. Phys.* 2025.4, 055 (avr. 2025), p. 055. DOI : [10.1088/1475-7516/2025/04/055](https://doi.org/10.1088/1475-7516/2025/04/055). arXiv : [2411.12027](https://arxiv.org/abs/2411.12027) [[astro-ph.CO](#)]
52. D. Bianchi, M. M. S. Hanif, A. Carnero Rosell et al. « Characterization of DESI fiber assignment incompleteness effect on 2-point clustering and mitigation methods for DR1 analysis ». *J. Cosmology Astropart. Phys.* 2025.4, 074 (avr. 2025), p. 074. DOI : [10.1088/1475-7516/2025/04/074](https://doi.org/10.1088/1475-7516/2025/04/074). arXiv : [2411.12025](https://arxiv.org/abs/2411.12025) [[astro-ph.CO](#)]
53. S. Novell-Masot, H. Gil-Marín, L. Verde et al. « Full-Shape analysis of the power spectrum and bispectrum of DESI DR1 LRG and QSO samples ». *J. Cosmology Astropart. Phys.* 2025.6, 005 (juin 2025), p. 005. DOI : [10.1088/1475-7516/2025/06/005](https://doi.org/10.1088/1475-7516/2025/06/005). arXiv : [2503.09714](https://arxiv.org/abs/2503.09714) [[astro-ph.CO](#)]
54. E. A. Zaborowski, P. Taylor, K. Honscheid et al. « A sound horizon-free measurement of H $_0$ in DESI 2024 ». *J. Cosmology Astropart. Phys.* 2025.6, 020 (juin 2025), p. 020. DOI : [10.1088/1475-7516/2025/06/020](https://doi.org/10.1088/1475-7516/2025/06/020). arXiv : [2411.16677](https://arxiv.org/abs/2411.16677) [[astro-ph.CO](#)]
55. E. Chaussidon, C. Yèche, A. de Mattia et al. « Constraining primordial non-Gaussianity with DESI 2024 LRG and QSO samples ». *J. Cosmology Astropart. Phys.* 2025.6, 029

- (juin 2025), p. 029. DOI : [10.1088/1475-7516/2025/06/029](https://doi.org/10.1088/1475-7516/2025/06/029). arXiv : [2411.17623](https://arxiv.org/abs/2411.17623) [[astro-ph.CO](#)]
56. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 II : sample definitions, characteristics, and two-point clustering statistics ». *J. Cosmology Astropart. Phys.* 2025.7, 017 (juill. 2025), p. 017. DOI : [10.1088/1475-7516/2025/07/017](https://doi.org/10.1088/1475-7516/2025/07/017). arXiv : [2411.12020](https://arxiv.org/abs/2411.12020) [[astro-ph.CO](#)]
57. A. J. Rosado-Marín, A. J. Ross, H. Seo et al. « Mitigating imaging systematics for DESI 2024 emission Line Galaxies and beyond ». *J. Cosmology Astropart. Phys.* 2025.7, 018 (juill. 2025), p. 018. DOI : [10.1088/1475-7516/2025/07/018](https://doi.org/10.1088/1475-7516/2025/07/018). arXiv : [2411.12024](https://arxiv.org/abs/2411.12024) [[astro-ph.CO](#)]
58. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 VII : cosmological constraints from the full-shape modeling of clustering measurements ». *J. Cosmology Astropart. Phys.* 2025.7, 028 (juill. 2025), p. 028. DOI : [10.1088/1475-7516/2025/07/028](https://doi.org/10.1088/1475-7516/2025/07/028). arXiv : [2411.12022](https://arxiv.org/abs/2411.12022) [[astro-ph.CO](#)]
59. N. Findlay, S. Nadathur, W. J. Percival et al. « Exploring HOD-dependent systematics for the DESI 2024 Full-Shape galaxy clustering analysis ». *J. Cosmology Astropart. Phys.* 2025.9, 007 (sept. 2025), p. 007. DOI : [10.1088/1475-7516/2025/09/007](https://doi.org/10.1088/1475-7516/2025/09/007). arXiv : [2411.12023](https://arxiv.org/abs/2411.12023) [[astro-ph.CO](#)]
60. A. G. Adame, J. Aguilar, S. Ahlen et al. « DESI 2024 V : Full-Shape galaxy clustering from galaxies and quasars ». *J. Cosmology Astropart. Phys.* 2025.9, 008 (sept. 2025), p. 008. DOI : [10.1088/1475-7516/2025/09/008](https://doi.org/10.1088/1475-7516/2025/09/008). arXiv : [2411.12021](https://arxiv.org/abs/2411.12021) [[astro-ph.CO](#)]
61. Nicolas Busca, James Rich, Julian Bautista et al. « The effects of continuum fitting on Lyman- α forest correlations ». *J. Cosmology Astropart. Phys.* 2025.9, 020 (sept. 2025), p. 020. DOI : [10.1088/1475-7516/2025/09/020](https://doi.org/10.1088/1475-7516/2025/09/020). arXiv : [2506.15262](https://arxiv.org/abs/2506.15262) [[astro-ph.CO](#)]
62. M. Ishak, J. Pan, R. Calderon et al. « Modified gravity constraints from the full shape modeling of clustering measurements from DESI 2024 ». *J. Cosmology Astropart. Phys.* 2025.9, 053 (sept. 2025), p. 053. DOI : [10.1088/1475-7516/2025/09/053](https://doi.org/10.1088/1475-7516/2025/09/053). arXiv : [2411.12026](https://arxiv.org/abs/2411.12026) [[astro-ph.CO](#)]
63. Naim Göksel Karaçaylı, Paul Martini, J. Aguilar et al. « DESI DR1 Ly α 1D power spectrum : the optimal estimator measurement ». *J. Cosmology Astropart. Phys.* 2025.10, 004 (oct. 2025), p. 004. DOI : [10.1088/1475-7516/2025/10/004](https://doi.org/10.1088/1475-7516/2025/10/004). arXiv : [2505.07974](https://arxiv.org/abs/2505.07974) [[astro-ph.CO](#)]
64. R. de Belsunce, A. Krolewski, E. Chaussidon et al. « Cosmology from Planck CMB lensing and DESI DR1 quasar tomography ». *J. Cosmology Astropart. Phys.* 2025.10, 077 (oct. 2025), p. 077. DOI : [10.1088/1475-7516/2025/10/077](https://doi.org/10.1088/1475-7516/2025/10/077). arXiv : [2506.22416](https://arxiv.org/abs/2506.22416) [[astro-ph.CO](#)]
65. Dylan Green, David Kirkby, J. Aguilar et al. « Using active learning to improve quasar identification for the DESI spectra processing pipeline ». *J. Cosmology Astropart. Phys.* 2025.10, 087 (oct. 2025), p. 087. DOI : [10.1088/1475-7516/2025/10/087](https://doi.org/10.1088/1475-7516/2025/10/087). arXiv : [2505.01596](https://arxiv.org/abs/2505.01596) [[astro-ph.IM](#)]
66. H. Zhang, M. Bonici, A. Rocher et al. « Enhancing DESI DR1 full-shape analyses using HOD-informed priors ». *J. Cosmology Astropart. Phys.* 2025.11, 049 (nov. 2025), p. 049. DOI : [10.1088/1475-7516/2025/11/049](https://doi.org/10.1088/1475-7516/2025/11/049). arXiv : [2504.10407](https://arxiv.org/abs/2504.10407) [[astro-ph.CO](#)]

67. T. Tan, J. Rich, E. Chaussidon et al. « Modeling of the high column density systems in the Lyman-Alpha forest ». *J. Cosmology Astropart. Phys.* 2025.11, 074 (nov. 2025), p. 074. DOI : [10.1088/1475-7516/2025/11/074](https://doi.org/10.1088/1475-7516/2025/11/074). arXiv : [2506.13005](https://arxiv.org/abs/2506.13005) [astro-ph.CO]
68. M. Maus, M. White, N. Sailer et al. « A joint analysis of 3D clustering and galaxy \times CMB-lensing cross-correlations with DESI DR1 galaxies ». *J. Cosmology Astropart. Phys.* 2025.11, 077 (nov. 2025), p. 077. DOI : [10.1088/1475-7516/2025/11/077](https://doi.org/10.1088/1475-7516/2025/11/077). arXiv : [2505.20656](https://arxiv.org/abs/2505.20656) [astro-ph.CO]
69. Corentin Ravoux, Marie-Lynn Abdul-Karim, Jean-Marc Le Goff et al. « DESI DR1 Ly α 1D power spectrum : the Fast Fourier Transform estimator measurement ». *J. Cosmology Astropart. Phys.* 2025.11, 079 (nov. 2025), p. 079. DOI : [10.1088/1475-7516/2025/11/079](https://doi.org/10.1088/1475-7516/2025/11/079). arXiv : [2505.09493](https://arxiv.org/abs/2505.09493) [astro-ph.CO]
70. Hiram K. Herrera-Alcantar, Eric Armengaud, Christophe Yèche et al. « The Lyman- α forest from LBGs : First 3D correlation measurement with DESI and prospects for cosmology ». *J. Cosmology Astropart. Phys.* 2025.12, 053 (déc. 2025), p. 053. DOI : [10.1088/1475-7516/2025/12/053](https://doi.org/10.1088/1475-7516/2025/12/053). arXiv : [2507.21852](https://arxiv.org/abs/2507.21852) [astro-ph.CO]
71. R. Gsponer, S. Ramirez-Solano, F. Rodríguez-Martínez et al. « Fiducial-Cosmology-dependent systematics for the DESI 2024 Full-Shape Analysis ». *arXiv e-prints*, arXiv :2509.08057 (sept. 2025), arXiv :2509.08057. DOI : [10.48550/arXiv.2509.08057](https://doi.org/10.48550/arXiv.2509.08057). arXiv : [2509.08057](https://arxiv.org/abs/2509.08057) [astro-ph.CO]
72. W. Davison, D. Parkinson, S. BenZvi et al. « STag. II. Classification of Serendipitous Supernovae Observed by Galaxy Redshift Surveys ». *PASP* 137.9, 094001 (sept. 2025), p. 094001. DOI : [10.1088/1538-3873/ae015d](https://doi.org/10.1088/1538-3873/ae015d). arXiv : [2406.17204](https://arxiv.org/abs/2406.17204) [astro-ph.CO]
73. César Ramírez-Pérez, Ignasi Pérez-Ràfols, Andreu Font-Ribera et al. « The Lyman- α forest catalogue from the Dark Energy Spectroscopic Instrument Early Data Release ». *MNRAS* 528.4 (mars 2024), p. 6666-6679. DOI : [10.1093/mnras/stad3781](https://doi.org/10.1093/mnras/stad3781). arXiv : [2306.06312](https://arxiv.org/abs/2306.06312) [astro-ph.CO]
74. J. McCullough, D. Gruen, A. Amon et al. « DESI complete calibration of the colour-redshift relation (DC3R2) : results from early DESI data ». *MNRAS* 531.2 (juin 2024), p. 2582-2602. DOI : [10.1093/mnras/stae1316](https://doi.org/10.1093/mnras/stae1316). arXiv : [2309.13109](https://arxiv.org/abs/2309.13109) [astro-ph.CO]
75. Naim Göksel Karaçaylı, Paul Martini, Julien Guy et al. « Optimal 1D Ly α forest power spectrum estimation - III. DESI early data ». *MNRAS* 528.3 (mars 2024), p. 3941-3963. DOI : [10.1093/mnras/stae171](https://doi.org/10.1093/mnras/stae171). arXiv : [2306.06316](https://arxiv.org/abs/2306.06316) [astro-ph.CO]
76. Sergey E. Kuposov, C. Allende Prieto, A. P. Cooper et al. « DESI Early Data Release Milky Way Survey value-added catalogue ». *MNRAS* 533.1 (sept. 2024), p. 1012-1031. DOI : [10.1093/mnras/stae1842](https://doi.org/10.1093/mnras/stae1842). arXiv : [2407.06280](https://arxiv.org/abs/2407.06280) [astro-ph.GA]
77. Christopher J. Manser, Paula Izquierdo, Boris T. Gänsicke et al. « The DESI Early Data Release white dwarf catalogue ». *MNRAS* 535.1 (nov. 2024), p. 254-289. DOI : [10.1093/mnras/stae2205](https://doi.org/10.1093/mnras/stae2205). arXiv : [2402.18641](https://arxiv.org/abs/2402.18641) [astro-ph.SR]
78. Claire Lamman, Daniel Eisenstein, Jaime E. Forero-Romero et al. « Detection of the large-scale tidal field with galaxy multiplet alignment in the DESI Y1 spectroscopic survey ». *MNRAS* 534.4 (nov. 2024), p. 3540-3551. DOI : [10.1093/mnras/stae2290](https://doi.org/10.1093/mnras/stae2290). arXiv : [2408.11056](https://arxiv.org/abs/2408.11056) [astro-ph.CO]

79. Claire Lamman, Daniel Eisenstein, Jessica Nicole Aguilar et al. « Redshift-dependent RSD bias from intrinsic alignment with DESI Year 1 spectra ». MNRAS 528.4 (mars 2024), p. 6559-6567. DOI : [10.1093/mnras/stae317](https://doi.org/10.1093/mnras/stae317). arXiv : [2312.04518](https://arxiv.org/abs/2312.04518) [astro-ph.CO]
80. Amanda Byström, Sergey E. Kopolov, Sophia Lilleengen et al. « Exploring the interaction between the MW and LMC with a large sample of blue horizontal branch stars from the DESI survey ». MNRAS 542.2 (sept. 2025), p. 560-582. DOI : [10.1093/mnras/staf1219](https://doi.org/10.1093/mnras/staf1219). arXiv : [2410.09149](https://arxiv.org/abs/2410.09149) [astro-ph.GA]
81. Z. Brown, R. Demina, A. G. Adame et al. « Constraining primordial non-Gaussianity from the large scale structure two-point and three-point correlation functions ». MNRAS 543.3 (nov. 2025), p. 2078-2092. DOI : [10.1093/mnras/staf1411](https://doi.org/10.1093/mnras/staf1411). arXiv : [2403.18789](https://arxiv.org/abs/2403.18789) [astro-ph.CO]
82. J. Myles, D. Gruen, T. Jeltema et al. « Spectroscopic Characterization of redMaPPer Galaxy Clusters with DESI ». MNRAS 544.2 (déc. 2025), p. 2080-2097. DOI : [10.1093/mnras/staf1831](https://doi.org/10.1093/mnras/staf1831). arXiv : [2506.06249](https://arxiv.org/abs/2506.06249) [astro-ph.CO]
83. Svyatoslav Trusov, Pauline Zarrouk et Shaun Cole. « Neural network-based model of galaxy power spectrum : fast full-shape galaxy power spectrum analysis ». MNRAS 538.3 (avr. 2025), p. 1789-1799. DOI : [10.1093/mnras/staf285](https://doi.org/10.1093/mnras/staf285). arXiv : [2403.20093](https://arxiv.org/abs/2403.20093) [astro-ph.CO]
84. Abbé M. Whitford, Hugo Rivera-Morales, Cullan Howlett et al. « Constraining the phase shift of relativistic species in DESI BAOs ». MNRAS 538.3 (avr. 2025), p. 1980-2000. DOI : [10.1093/mnras/staf394](https://doi.org/10.1093/mnras/staf394). arXiv : [2412.05990](https://arxiv.org/abs/2412.05990) [astro-ph.CO]
85. J. Callow, O. Graur, P. Clark et al. « The rate of extreme coronal line emitters in the Baryon Oscillation Spectroscopic Survey LOWZ sample ». MNRAS 539.1 (mai 2025), p. 231-245. DOI : [10.1093/mnras/staf496](https://doi.org/10.1093/mnras/staf496). arXiv : [2501.14022](https://arxiv.org/abs/2501.14022) [astro-ph.HE]
86. Khaled Said, Cullan Howlett, Tamara Davis et al. « DESI peculiar velocity survey – Fundamental Plane ». MNRAS 539.4 (juin 2025), p. 3627-3644. DOI : [10.1093/mnras/staf700](https://doi.org/10.1093/mnras/staf700). arXiv : [2408.13842](https://arxiv.org/abs/2408.13842) [astro-ph.CO]
87. Bokyoung Kim, Sergey E. Kopolov, Ting S. Li et al. « Nearby stellar substructures in the Galactic halo from DESI Milky Way Survey Year 1 Data Release ». MNRAS 540.1 (juin 2025), p. 264-288. DOI : [10.1093/mnras/staf705](https://doi.org/10.1093/mnras/staf705). arXiv : [2504.20327](https://arxiv.org/abs/2504.20327) [astro-ph.GA]
88. Peter Clark, Joseph Callow, Or Graur et al. « AT 2018dyk : tidal disruption event or active galactic nucleus? Follow-up observations of an extreme coronal line emitter with the Dark Energy Spectroscopic Instrument ». MNRAS 540.1 (juin 2025), p. 871-906. DOI : [10.1093/mnras/staf724](https://doi.org/10.1093/mnras/staf724). arXiv : [2502.04080](https://arxiv.org/abs/2502.04080) [astro-ph.HE]
89. Kun Xu, Y. P. Jing, S. Cole et al. « PAC in DESI. I. Galaxy stellar mass function into the $10^6 M_{\odot}$ frontier ». MNRAS 540.2 (juin 2025), p. 1635-1667. DOI : [10.1093/mnras/staf782](https://doi.org/10.1093/mnras/staf782). arXiv : [2503.01948](https://arxiv.org/abs/2503.01948) [astro-ph.GA]
90. Christopher J. Manser, Boris T. Gänsicke, Paula Izquierdo et al. « The frequency of metal enrichment of cool helium-atmosphere white dwarfs using the DESI early data release ». MNRAS 531.1 (juin 2024), p. L27-L32. DOI : [10.1093/mnras/1/slae026](https://doi.org/10.1093/mnras/1/slae026). arXiv : [2402.18644](https://arxiv.org/abs/2402.18644) [astro-ph.EP]
91. J. Hou, R. N. Cahn, J. Aguilar et al. « Study of the connected four-point correlation function of galaxies from the DESI Data Release 1 luminous red galaxy sample ». Phys. Rev. D

- 112.12, 122005 (déc. 2025), p. 122005. DOI : [10.1103/1wyy-758f](https://doi.org/10.1103/1wyy-758f). arXiv : [2508.09070](https://arxiv.org/abs/2508.09070) [astro-ph.CO]
92. M. Abdul Karim, J. Aguilar, S. Ahlen et al. « DESI DR2 results. I. Baryon acoustic oscillations from the Lyman alpha forest ». *Phys. Rev. D* 112.8, 083514 (oct. 2025), p. 083514. DOI : [10.1103/2wwn-xjm5](https://doi.org/10.1103/2wwn-xjm5). arXiv : [2503.14739](https://arxiv.org/abs/2503.14739) [astro-ph.CO]
 93. L. A. Ureña-López, F. Lozano-Rodríguez, J. O. Román-Herrera et al. « Updated cosmological constraints on axion dark energy with DESI ». *Phys. Rev. D* 112.10, 103505 (nov. 2025), p. 103505. DOI : [10.1103/6pqs-xjln](https://doi.org/10.1103/6pqs-xjln). arXiv : [2503.20178](https://arxiv.org/abs/2503.20178) [astro-ph.CO]
 94. Naim Göksel Karaçaylı, Paul Martini, David H. Weinberg et al. « CMB lensing and Ly α forest cross bispectrum from DESI's first-year quasar sample ». *Phys. Rev. D* 110.6, 063505 (sept. 2024), p. 063505. DOI : [10.1103/PhysRevD.110.063505](https://doi.org/10.1103/PhysRevD.110.063505). arXiv : [2405.14988](https://arxiv.org/abs/2405.14988) [astro-ph.CO]
 95. S. Chen, J. DeRose, R. Zhou et al. « Analysis of DESI \times DES using the Lagrangian effective theory of LSS ». *Phys. Rev. D* 110.10, 103518 (nov. 2024), p. 103518. DOI : [10.1103/PhysRevD.110.103518](https://doi.org/10.1103/PhysRevD.110.103518). arXiv : [2407.04795](https://arxiv.org/abs/2407.04795) [astro-ph.CO]
 96. K. Lodha, A. Shafieloo, R. Calderon et al. « DESI 2024 : Constraints on physics-focused aspects of dark energy using DESI DR1 BAO data ». *Phys. Rev. D* 111.2, 023532 (jan. 2025), p. 023532. DOI : [10.1103/PhysRevD.111.023532](https://doi.org/10.1103/PhysRevD.111.023532). arXiv : [2405.13588](https://arxiv.org/abs/2405.13588) [astro-ph.CO]
 97. Frank J. Qu, Qianjun Hang, Gerrit Farren et al. « Atacama Cosmology Telescope DR6 and DESI : Structure growth measurements from the cross-correlation of DESI legacy imaging galaxies and CMB lensing from ACT DR6 and Planck PR4 ». *Phys. Rev. D* 111.10, 103503 (mai 2025), p. 103503. DOI : [10.1103/PhysRevD.111.103503](https://doi.org/10.1103/PhysRevD.111.103503). arXiv : [2410.10808](https://arxiv.org/abs/2410.10808) [astro-ph.CO]
 98. C. Garcia-Quintero, H. E. Noriega, A. de Mattia et al. « Cosmological implications of DESI DR2 BAO measurements in light of the latest ACT DR6 CMB data ». *Phys. Rev. D* 112.8, 083529 (oct. 2025), p. 083529. DOI : [10.1103/d6yc-xpqb](https://doi.org/10.1103/d6yc-xpqb). arXiv : [2504.18464](https://arxiv.org/abs/2504.18464) [astro-ph.CO]
 99. R. Henry Liu, Simone Ferraro, Emmanuel Schaan et al. « Measurements of the thermal Sunyaev-Zel'dovich effect with ACT and DESI luminous red galaxies ». *Phys. Rev. D* 112.8, 083561 (oct. 2025), p. 083561. DOI : [10.1103/jqn8-19gx](https://doi.org/10.1103/jqn8-19gx). arXiv : [2502.08850](https://arxiv.org/abs/2502.08850) [astro-ph.CO]
 100. B. Hadzhiyska, S. Ferraro, B. Ried Guachalla et al. « Evidence for large baryonic feedback at low and intermediate redshifts from kinematic Sunyaev-Zel'dovich observations with ACT and DESI photometric galaxies ». *Phys. Rev. D* 112.8, 083509 (oct. 2025), p. 083509. DOI : [10.1103/kclp-x5j1](https://doi.org/10.1103/kclp-x5j1). arXiv : [2407.07152](https://arxiv.org/abs/2407.07152) [astro-ph.CO]
 101. U. Andrade, E. Paillas, J. Mena-Fernández et al. « Validation of the DESI DR2 measurements of baryon acoustic oscillations from galaxies and quasars ». *Phys. Rev. D* 112.8, 083512 (oct. 2025), p. 083512. DOI : [10.1103/kdys-w8v1](https://doi.org/10.1103/kdys-w8v1). arXiv : [2503.14742](https://arxiv.org/abs/2503.14742) [astro-ph.CO]
 102. Bernardita Ried Guachalla, Emmanuel Schaan, Boryana Hadzhiyska et al. « Backlighting extended gas halos around luminous red galaxies : Kinematic Sunyaev-Zel'dovich effect from DESI Y1 and ACT data ». *Phys. Rev. D* 112.10, 103512 (nov. 2025), p. 103512. DOI : [10.1103/lqbj-wcqj](https://doi.org/10.1103/lqbj-wcqj). arXiv : [2503.19870](https://arxiv.org/abs/2503.19870) [astro-ph.GA]

- 103.** K. Lodha, R. Calderon, W. L. Matthewson et al. « Extended dark energy analysis using DESI DR2 BAO measurements ». *Phys. Rev. D* 112.8, 083511 (oct. 2025), p. 083511. DOI : [10.1103/w4c6-1r5j](https://doi.org/10.1103/w4c6-1r5j). arXiv : [2503.14743](https://arxiv.org/abs/2503.14743) [[astro-ph.CO](#)]
- 104.** W. Elbers, A. Aviles, H. E. Noriega et al. « Constraints on neutrino physics from DESI DR2 BAO and DR1 full shape ». *Phys. Rev. D* 112.8, 083513 (oct. 2025), p. 083513. DOI : [10.1103/w9pk-xsk7](https://doi.org/10.1103/w9pk-xsk7). arXiv : [2503.14744](https://arxiv.org/abs/2503.14744) [[astro-ph.CO](#)]
- 105.** A. Brodzeller, M. Wolfson, D. M. Santos et al. « Construction of the damped Ly α absorber catalog for DESI DR2 Ly α BAO ». *Phys. Rev. D* 112.8, 083510 (oct. 2025), p. 083510. DOI : [10.1103/wxyv-46kb](https://doi.org/10.1103/wxyv-46kb). arXiv : [2503.14740](https://arxiv.org/abs/2503.14740) [[astro-ph.CO](#)]
- 106.** E. Chaussidon, M. White, A. de Mattia et al. « Early time solution as an alternative to the late time evolving dark energy with DESI DR2 BAO ». *Phys. Rev. D* 112.6, 063548 (sept. 2025), p. 063548. DOI : [10.1103/xtq1-wh3h](https://doi.org/10.1103/xtq1-wh3h). arXiv : [2503.24343](https://arxiv.org/abs/2503.24343) [[astro-ph.CO](#)]
- 107.** S. P. Ahlen, A. Aviles, B. Cartwright et al. « Positive Neutrino Masses with DESI DR2 via Matter Conversion to Dark Energy ». *Phys. Rev. Lett.* 135.8, 081003 (août 2025), p. 081003. DOI : [10.1103/yb2k-kn7h](https://doi.org/10.1103/yb2k-kn7h). arXiv : [2504.20338](https://arxiv.org/abs/2504.20338) [[astro-ph.CO](#)]
- 108.** B. Bahr-Kalus, D. Parkinson, K. Lodha et al. « Model-independent measurement of the matter-radiation equality scale in DESI 2024 ». *Phys. Rev. D* 112.6, 063553 (sept. 2025), p. 063553. DOI : [10.1103/yqm1-ybbv](https://doi.org/10.1103/yqm1-ybbv). arXiv : [2505.16153](https://arxiv.org/abs/2505.16153) [[astro-ph.CO](#)]
- 109.** DESI Collaboration, A. G. Adame, J. Aguilar et al. « Validation of the Scientific Program for the Dark Energy Spectroscopic Instrument ». *AJ* 167.2, 62 (fév. 2024), p. 62. DOI : [10.3847/1538-3881/ad0b08](https://doi.org/10.3847/1538-3881/ad0b08). arXiv : [2306.06307](https://arxiv.org/abs/2306.06307) [[astro-ph.CO](#)]
- 110.** DESI Collaboration, A. G. Adame, J. Aguilar et al. « The Early Data Release of the Dark Energy Spectroscopic Instrument ». *AJ* 168.2, 58 (août 2024), p. 58. DOI : [10.3847/1538-3881/ad3217](https://doi.org/10.3847/1538-3881/ad3217). arXiv : [2306.06308](https://arxiv.org/abs/2306.06308) [[astro-ph.CO](#)]
- 111.** Timothy N. Miller, Peter Doel, Gaston Gutierrez et al. « The Optical Corrector for the Dark Energy Spectroscopic Instrument ». *AJ* 168.2, 95 (août 2024), p. 95. DOI : [10.3847/1538-3881/ad45fe](https://doi.org/10.3847/1538-3881/ad45fe). arXiv : [2306.06310](https://arxiv.org/abs/2306.06310) [[astro-ph.IM](#)]
- 112.** Abhijeet Anand, Julien Guy, Stephen Bailey et al. « Archetype-based Redshift Estimation for the Dark Energy Spectroscopic Instrument Survey ». *AJ* 168.3, 124 (sept. 2024), p. 124. DOI : [10.3847/1538-3881/ad60c2](https://doi.org/10.3847/1538-3881/ad60c2). arXiv : [2405.19288](https://arxiv.org/abs/2405.19288) [[astro-ph.CO](#)]
- 113.** Claire Poppett, Luke Tyas, J. Aguilar et al. « Overview of the Fiber System for the Dark Energy Spectroscopic Instrument ». *AJ* 168.6, 245 (déc. 2024), p. 245. DOI : [10.3847/1538-3881/ad76a4](https://doi.org/10.3847/1538-3881/ad76a4)
- 114.** E. F. Schlafly, J. Guy, K. Honscheid et al. « Correcting Turbulence-induced Errors in Fiber Positioning for the Dark Energy Spectroscopic Instrument ». *AJ* 168.6, 263 (déc. 2024), p. 263. DOI : [10.3847/1538-3881/ad7e12](https://doi.org/10.3847/1538-3881/ad7e12). arXiv : [2407.08026](https://arxiv.org/abs/2407.08026) [[astro-ph.IM](#)]
- 115.** S. Juneau, R. Canning, D. M. Alexander et al. « Identifying Missing Quasars from the DESI Bright Galaxy Survey ». *AJ* 169.3, 157 (mars 2025), p. 157. DOI : [10.3847/1538-3881/adabc9](https://doi.org/10.3847/1538-3881/adabc9). arXiv : [2404.03621](https://arxiv.org/abs/2404.03621) [[astro-ph.GA](#)]
- 116.** Lucas Napolitano, Adam D. Myers, Victoria A. Fawcett et al. « DESI Mg II Absorbers : Extinction Characteristics and Quasar Redshift Accuracy ». *AJ* 170.1, 16 (juill. 2025), p. 16. DOI : [10.3847/1538-3881/adc389](https://doi.org/10.3847/1538-3881/adc389). arXiv : [2412.15383](https://arxiv.org/abs/2412.15383) [[astro-ph.GA](#)]

117. Songting Li, Wenting Wang, Sergey E. Kposov et al. « SpecDis : Value Added Distance Catalog for 4 Million Stars from DESI Year-1 Data ». *AJ* 170.3, 171 (sept. 2025), p. 171. DOI : [10.3847/1538-3881/adf1a0](https://doi.org/10.3847/1538-3881/adf1a0). arXiv : [2503.02291](https://arxiv.org/abs/2503.02291) [astro-ph.GA]
118. Hu Zou, Jipeng Sui, Amélie Saintonge et al. « A Large Sample of Extremely Metal-poor Galaxies at $z < 1$ Identified from the DESI Early Data ». *ApJ* 961.2, 173 (fév. 2024), p. 173. DOI : [10.3847/1538-4357/ad1409](https://doi.org/10.3847/1538-4357/ad1409). arXiv : [2312.00300](https://arxiv.org/abs/2312.00300) [astro-ph.GA]
119. Linhua Jiang, Zhiwei Pan, Jessica Nicole Aguilar et al. « Constraints on the Spacetime Variation of the Fine-structure Constant Using DESI Emission-line Galaxies ». *ApJ* 968.2, 120 (juin 2024), p. 120. DOI : [10.3847/1538-4357/ad47b4](https://doi.org/10.3847/1538-4357/ad47b4). arXiv : [2404.03123](https://arxiv.org/abs/2404.03123) [astro-ph.CO]
120. Yu-Ling Chang, Ting-Wen Lan, J. Xavier Prochaska et al. « Probing the Impact of Radio-mode Feedback on the Properties of the Cool Circumgalactic Medium ». *ApJ* 974.2, 191 (oct. 2024), p. 191. DOI : [10.3847/1538-4357/ad6c44](https://doi.org/10.3847/1538-4357/ad6c44). arXiv : [2405.08314](https://arxiv.org/abs/2405.08314) [astro-ph.GA]
121. Wynne Turner, Paul Martini, Naim Göksel Karaçaylı et al. « New Measurements of the Ly α Forest Continuum and Effective Optical Depth with LyCAN and DESI Y1 Data ». *ApJ* 976.1, 143 (nov. 2024), p. 143. DOI : [10.3847/1538-4357/ad8239](https://doi.org/10.3847/1538-4357/ad8239). arXiv : [2405.06743](https://arxiv.org/abs/2405.06743) [astro-ph.CO]
122. M. Valluri, P. Fagrelius, S. E. Kposov et al. « GD-1 Stellar Stream and Cocoon in the DESI Early Data Release ». *ApJ* 980.1, 71 (fév. 2025), p. 71. DOI : [10.3847/1538-4357/ada690](https://doi.org/10.3847/1538-4357/ada690). arXiv : [2407.06336](https://arxiv.org/abs/2407.06336) [astro-ph.GA]
123. Ragadeepika Pucha, S. Juneau, Arjun Dey et al. « Tripling the Census of Dwarf AGN Candidates Using DESI Early Data ». *ApJ* 982.1, 10 (mars 2025), p. 10. DOI : [10.3847/1538-4357/adb1dd](https://doi.org/10.3847/1538-4357/adb1dd). arXiv : [2411.00091](https://arxiv.org/abs/2411.00091) [astro-ph.GA]
124. Xuanyi Wu, Z. Cai, T.-W. Lan et al. « Tracing the Evolution of the Cool Gas in CGM and IGM Environments through Mg II Absorption from Redshift $z = 0.75$ to $z = 1.65$ Using DESI-Y1 Data ». *ApJ* 983.2, 186 (avr. 2025), p. 186. DOI : [10.3847/1538-4357/adb28a](https://doi.org/10.3847/1538-4357/adb28a). arXiv : [2407.17809](https://arxiv.org/abs/2407.17809) [astro-ph.GA]
125. Hernan Rincon, Segev Benzvi, Kelly Douglass et al. « DESIVAST : Catalogs of Low-redshift Voids Using Data from the DESI Data Release 1 Bright Galaxy Survey ». *ApJ* 982.1, 38 (mars 2025), p. 38. DOI : [10.3847/1538-4357/adb559](https://doi.org/10.3847/1538-4357/adb559). arXiv : [2411.00148](https://arxiv.org/abs/2411.00148) [astro-ph.CO]
126. Wenting Wang, Xiaohu Yang, Yipeng Jing et al. « Luminosity and Stellar Mass Functions of Faint Photometric Satellites around Spectroscopic Central Galaxies from DESI Year-1 Bright Galaxy Survey ». *ApJ* 986.2, 218 (juin 2025), p. 218. DOI : [10.3847/1538-4357/add5df](https://doi.org/10.3847/1538-4357/add5df). arXiv : [2503.03317](https://arxiv.org/abs/2503.03317) [astro-ph.GA]
127. Zhiwei Pan, Linhua Jiang, Wei-Jian Guo et al. « Iron-corrected Single-epoch Black Hole Masses of DESI Quasars at Low Redshift ». *ApJ* 987.1, 48 (juill. 2025), p. 48. DOI : [10.3847/1538-4357/add7dd](https://doi.org/10.3847/1538-4357/add7dd). arXiv : [2502.03684](https://arxiv.org/abs/2502.03684) [astro-ph.GA]
128. Abhijeet Anand, J. Aguilar, S. Ahlen et al. « The Cosmic Evolution of C IV Absorbers at $1.4 < z < 4.5$: Insights from 100,000 Systems in DESI Quasars ». *ApJ* 990.2, 151 (sept. 2025), p. 151. DOI : [10.3847/1538-4357/ade33c](https://doi.org/10.3847/1538-4357/ade33c). arXiv : [2504.20299](https://arxiv.org/abs/2504.20299) [astro-ph.CO]
129. Ragadeepika Pucha, S. Juneau, Arjun Dey et al. « Erratum : "Tripling the Census of Dwarf AGN Candidates Using DESI Early Data" (2025, ApJ, 982, 10) ». *ApJ* 990.2, 231 (sept. 2025), p. 231. DOI : [10.3847/1538-4357/adfee0](https://doi.org/10.3847/1538-4357/adfee0)

130. T. Hagen, K. S. Dawson, Z. Zheng et al. « DESI Emission-line Galaxies : Clustering Dependence on Stellar Mass and [O II] Luminosity ». *ApJ* 992.1, 121 (oct. 2025), p. 121. DOI : [10.3847/1538-4357/ae0036](https://doi.org/10.3847/1538-4357/ae0036). arXiv : [2505.20430](https://arxiv.org/abs/2505.20430) [astro-ph.GA]
131. Yu Voon Ng, Ting-Wen Lan, J. Xavier Prochaska et al. « A Comprehensive Characterization of Galaxy-cool CGM Connections at $z < 0.4$ with DESI Year 1 Data ». *ApJ* 993.1, 92 (nov. 2025), p. 92. DOI : [10.3847/1538-4357/ae0613](https://doi.org/10.3847/1538-4357/ae0613). arXiv : [2503.11139](https://arxiv.org/abs/2503.11139) [astro-ph.GA]
132. Hao Yang, Wenting Wang, Ling Zhu et al. « The Dark Matter Content of Milky Way Dwarf Spheroidal Galaxies : Draco, Sextans, and Ursa Minor ». *ApJ* 993.2, 249 (nov. 2025), p. 249. DOI : [10.3847/1538-4357/ae07ce](https://doi.org/10.3847/1538-4357/ae07ce). arXiv : [2507.02284](https://arxiv.org/abs/2507.02284) [astro-ph.GA]
133. J. Ding, C. Rockosi, Ting S. Li et al. « The Draco Dwarf Spheroidal Galaxy in the First Year of Dark Energy Spectroscopic Instrument Data ». *ApJ* 994.1, 134 (nov. 2025), p. 134. DOI : [10.3847/1538-4357/ae0a37](https://doi.org/10.3847/1538-4357/ae0a37). arXiv : [2509.21822](https://arxiv.org/abs/2509.21822) [astro-ph.GA]
134. Gautam Nagaraj, Robin Ciardullo, Caryl Gronwall et al. « ODIN : Probing the LAE Ly α Luminosity Function across Cosmic Time and Different Environments ». *ApJ* 995.1, 126 (déc. 2025), p. 126. DOI : [10.3847/1538-4357/ae1969](https://doi.org/10.3847/1538-4357/ae1969). arXiv : [2506.14510](https://arxiv.org/abs/2506.14510) [astro-ph.GA]
135. Martin Landriau, Erin Mentuch Cooper, Dustin Davis et al. « DESI Spectroscopy of HETDEX Emission-line Candidates. I. Line Discrimination Validation ». *ApJ* 995.2, 220 (déc. 2025), p. 220. DOI : [10.3847/1538-4357/ae1ae6](https://doi.org/10.3847/1538-4357/ae1ae6). arXiv : [2503.02229](https://arxiv.org/abs/2503.02229) [astro-ph.CO]
136. Maayane T. Soumagnac, Peter Nugent, Robert A. Knop et al. « The MOST Hosts Survey : Spectroscopic Observation of the Host Galaxies of $\sim 40,000$ Transients Using DESI ». *ApJS* 275.2, 22 (déc. 2024), p. 22. DOI : [10.3847/1538-4365/ad76ae](https://doi.org/10.3847/1538-4365/ad76ae). arXiv : [2405.03857](https://arxiv.org/abs/2405.03857) [astro-ph.HE]
137. Wei-Jian Guo, Hu Zou, Claire L. Greenwell et al. « Changing-look Active Galactic Nuclei from the Dark Energy Spectroscopic Instrument. II. Statistical Properties from the First Data Release ». *ApJS* 278.1, 28 (mai 2025), p. 28. DOI : [10.3847/1538-4365/adc124](https://doi.org/10.3847/1538-4365/adc124). arXiv : [2408.00402](https://arxiv.org/abs/2408.00402) [astro-ph.GA]
138. Wei-Jian Guo, Zhiwei Pan, Małgorzata Siudek et al. « The First Identification of Ly α Changing-look Quasars at High Redshift in DESI ». *ApJ* 981.1, L8 (mars 2025), p. L8. DOI : [10.3847/2041-8213/adb426](https://doi.org/10.3847/2041-8213/adb426). arXiv : [2411.01949](https://arxiv.org/abs/2411.01949) [astro-ph.GA]
139. Yize Dong, Kaylee de Soto, V. Ashley Villar et al. « Enabling Early Transient Discovery in LSST via Difference Imaging with DECam ». *ApJ* 994.1, L8 (nov. 2025), p. L8. DOI : [10.3847/2041-8213/ae1837](https://doi.org/10.3847/2041-8213/ae1837). arXiv : [2507.22156](https://arxiv.org/abs/2507.22156) [astro-ph.HE]
140. James Freeburn, Igor Andreoni, Kaylee M. de Soto et al. « Identification and Photometric Classification of Extragalactic Transients in the Vera C. Rubin Observatory's Data Preview 1 ». *ApJ* 994.1, L24 (nov. 2025), p. L24. DOI : [10.3847/2041-8213/ae1cba](https://doi.org/10.3847/2041-8213/ae1cba). arXiv : [2507.22864](https://arxiv.org/abs/2507.22864) [astro-ph.HE]