Duncan Farrah | C. V.

Department of Physics & Astronomy, University of Hawaii
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Employment & Education

University of Hawaii **2018–present**
Faculty

Virginia Tech **2012–2018**
Faculty

University of Sussex, UK **2008–2012**
STFC Advanced Fellow

Cornell University **2005–2008**
Postdoctoral Associate

California Institute of Technology **2002–2005**
Postdoctoral Associate

Imperial College London, UK **1994–2002**
MSci in Physics, Ph.D. in Astrophysics

Research Outputs

Publication statistics are from NASA-ADS as of March 18, 2025, and include only refereed publications. A complete bibliography is appended.

- **All papers:** 325 publications. $\sim 24,000$ citations.
- **All papers - first author:** 25 publications. ~ 1600 citations.

Research Interests

The co-evolution of star formation & AGN
AGN feedback and its role in galaxy assembly
The geometry of the AGN obscurer
Observational tests of dark matter and dark energy

Professional Service

Far-Infrared Science Interest Group **2016–2020**
Co-chair/member

James Webb Space Telescope Users Committee **2017–2020**
Member

Thirty Meter Telescope Instrument Science Definition Team **2015–present**
Member

Einstein Fellowship Review panel **January 2017**
Member

ALMA Time Allocation Committee **Cycles 3-5**
Member

JWST Time Allocation Committee **Cycles 1-2**
Member

HST Time Allocation Committee **Cycle 25**
Member

Spitzer Time Allocation Committee **Cycles 12-13**
Member

LMT Time Allocation Committee **Cycle 4 & 5**
Member

European Southern Observatory Cosmology Time Allocation Committee **2011–2012**
Member & co-chair

Gemini UK Time Allocation Committee **08B–11A**
Member

Chandra Time Allocation Committee **Cycle 11**
Member

Postdoctoral Fellowships reviewer **2011-present**
Including: NASA NPP, STFC Ernest Rutherford, Dorothy Hodgkins, CIENCIA fellowship

Journal referee **2002–present**
Including: ApJ, ApJ Letters, MNRAS, and A&A.

Telescope referee **2005–present**
Including: JCMT, UKIRT, WHT, Gemini, China TAP

DEEPDRILL workshop **2017**
Co-organizer

“The Future of Far-Infrared Instrumentation”, Pasadena CA **March 2017**
SOC co-chair

"Galaxy Pathways" conference, Catalina Island **June 2016**
Session chair

University and Departmental Service

Faculty Senate (NatSci) **2019–2023**

Tenure & Promotion Review Committee **2023**

EAA Phase I & II Advisor Training Committee **2019–present**

Chair: Graduate Program Advisory Committee **2024–present**

Co-Chair: Undergraduate Program Advisory Committee **2024–present**

Graduate Admissions Committee (IfA) **2018–present**

Undergraduate Committee (IfA) **2018–present**

Faculty mentor for two IfA graduate students **2019–present**

Undergraduate Teaching

PHYS 272: Introduction to Electromagnetism.

ASTR 110: Introduction to Astronomy.

ASTR 300L: Astronomy Laboratory.

ASTR 426: Galaxies and Cosmology.

ASTR 474: Gravitation and Cosmology.

Projects: I advise 2-3 undergraduate students per semester, on projects based either on their own interests, or those drawn from my ongoing research projects.

Complete List of Refereed Publications

[1] Charalambia Varnava et al. "Constraints on the active galactic nucleus and starburst activity of local ultraluminous infrared galaxies from a broad range of torus models". In: *MNRAS* 538.1 (Mar. 2025), pp. 426–453. DOI: 10.1093/mnras/staf319. arXiv: 2502.14101 [astro-ph.GA].

[2] D. Farrah et al. "The Assembly of Supermassive Black Holes at z $<$ 1 in Early-type Galaxies from Scaling Relations". In: *ApJ* 981.1, 71 (Mar. 2025), p. 71. DOI: 10.3847/1538-4357/adb0c7. arXiv: 2501.17227 [astro-ph.GA].

[3] Michail Papadopoulos et al. "A comparative study of galaxy evolution with four different active galactic nucleus torus models and two different host geometries". In: *MNRAS* 536.3 (Jan. 2025), pp. 2433–2448. DOI: 10.1093/mnras/stae2723. arXiv: 2501.06870 [astro-ph.GA].

[4] Peter G. Boorman et al. "The NuSTAR Local AGN N $_H$ Distribution Survey (NuLANDS). I. Toward a Truly Representative Column Density Distribution in the Local Universe". In: *ApJ* 978.1, 118 (Jan. 2025), p. 118. DOI: 10.3847/1538-4357/ad8236. arXiv: 2410.07339 [astro-ph.GA].

[5] Matteo Bonato et al. "A High-resolution Far-infrared Survey to Probe Black Hole–Galaxy Co-evolution". In: *ApJ* 977.2, 208 (Dec. 2024), p. 208. DOI: 10.3847/1538-4357/ad8e36. arXiv: 2411.01216 [astro-ph.GA].

[6] Leonid Sajkov et al. "Halfway to the Peak: The JWST MIRI 5.6 μm Number Counts and Source Population". In: *ApJ* 977.1, 115 (Dec. 2024), p. 115. DOI: 10.3847/1538-4357/ad8c22. arXiv: 2406.04437 [astro-ph.GA].

[7] Charalambia Varnava, Andreas Efstathiou, and Duncan Farrah. "Exploring the properties of the obscured hyperluminous quasar COS-87259 at z = 6.853". In: *MNRAS* 534.3 (Nov. 2024), pp. 2585–2591. DOI: 10.1093/mnras/stae2221. arXiv: 2410.08834 [astro-ph.GA].

[8] Kevin S. Croker et al. "DESI dark energy time evolution is recovered by cosmologically coupled black holes". In: *J. Cosmology Astropart. Phys.* 2024.10, 094 (Oct. 2024), p. 094. DOI: 10.1088/1475-7516/2024/10/094. arXiv: 2405.12282 [astro-ph.CO].

[9] Jack E. Birkin et al. "KAOSS: turbulent, but disc-like kinematics in dust-obscured star-forming galaxies at z 1.3-2.6". In: *MNRAS* 531.1 (June 2024), pp. 61–83. DOI: 10.1093/mnras/stae1089. arXiv: 2301.05720 [astro-ph.GA].

[10] E. Borsato et al. "Characterization of Herschel-selected strong lens candidates through HST and sub-mm/mm observations". In: *MNRAS* 528.4 (Mar. 2024), pp. 6222–6279. DOI: 10.1093/mnras/stad3381. arXiv: 2311.01158 [astro-ph.GA].

[11] Mark Lacy et al. "Constraints on Cosmological Coupling from the Accretion History of Supermassive Black Holes". In: *ApJ* 961.2, L33 (Feb. 2024), p. L33. DOI: 10.3847/2041-8213/ad1b5f. arXiv: 2312.12344 [astro-ph.CO].

[12] Jason Young et al. "Halfway to the Peak: Spatially Resolved Star Formation and Kinematics in a z = 0.54 Dusty Galaxy with JWST/MIRI". In: *ApJ* 958.1, L5 (Nov. 2023), p. L5. DOI: 10.3847/2041-8213/ad07e1. arXiv: 2310.06900 [astro-ph.GA].

[13] Stergios Amarantidis et al. "Tracing obscured galaxy build-up at high redshift using deep radio surveys". In: *A&A* 678, A116 (Oct. 2023), A116. DOI: 10.1051/0004-6361/202346411. arXiv: 2308.13283 [astro-ph.GA].

[14] Eelco van Kampen et al. "The Spitzer Extragalactic Representative Volume Survey and DeepDrill extension: clustering of near-infrared galaxies". In: *MNRAS* 523.1 (July 2023), pp. 251–269. DOI: 10.1093/mnras/stad1466. arXiv: 2305.07464 [astro-ph.CO].

[15] Marianna Annunziatella et al. "The Spitzer Coverage of HSC-Deep with IRAC for Z studies (SHIRAZ). I. IRAC Mosaics". In: *AJ* 166.1, 25 (July 2023), p. 25. DOI: 10.3847/1538-3881/acd773. arXiv: 2305.13363 [astro-ph.GA].

[16] Mariana S. Lazarova et al. "The Nature of LoBAL QSOs. II. HST/WFC3 Observations Reveal Host Galaxies Dominated by Mergers". In: *ApJ* 949.2, 69 (June 2023), p. 69. DOI: 10.3847/1538-4357/acc6d0. arXiv: 2303.08860 [astro-ph.GA].

[17] Duncan Farrah et al. "Observational Evidence for Cosmological Coupling of Black Holes and its Implications for an Astrophysical Source of Dark Energy". In: *ApJ* 944.2, L31 (Feb. 2023), p. L31. DOI: 10.3847/2041-8213/acb704. arXiv: 2302.07878 [astro-ph.CO].

[18] Duncan Farrah et al. "A Preferential Growth Channel for Supermassive Black Holes in Elliptical Galaxies at $z \lesssim 2$". In: *ApJ* 943.2, 133 (Feb. 2023), p. 133. DOI: 10.3847/1538-4357/acac2e. arXiv: 2212.06854 [astro-ph.GA].

[19] Duncan Farrah et al. "Molecular Gas Heating, Star Formation Rate Relations, and AGN Feedback in Infrared-Luminous Galaxy Mergers". In: *Universe* 9.1, 3 (Dec. 2022), p. 3. DOI: 10.3390/universe9010003. arXiv: 2501.17257 [astro-ph.GA].

[20] F. Gao et al. "Probing the megaparsec-scale environment of hyperluminous infrared galaxies at $2 < z < 4$". In: *A&A* 668, A54 (Dec. 2022), A54. DOI: 10.1051/0004-6361/202244072. arXiv: 2209.03088 [astro-ph.GA].

[21] Duncan Farrah et al. "Stellar and black hole assembly in $z < 0.3$ infrared-luminous mergers: intermittent starbursts versus super-Eddington accretion". In: *MNRAS* 513.4 (July 2022), pp. 4770–4786. DOI: 10.1093/mnras/stac980. arXiv: 2205.00037 [astro-ph.GA].

[22] A. Efstathiou et al. "A new look at local ultraluminous infrared galaxies: the atlas and radiative transfer models of their complex physics". In: *MNRAS* 512.4 (June 2022), pp. 5183–5213. DOI: 10.1093/mnras/stab3642. arXiv: 2205.00011 [astro-ph.GA].

[23] Kevin S. Croker, Joel L. Weiner, and Duncan Farrah. "Well-defined equations of motion without constraining external sources". In: *Phys. Rev. D* 105.8, 084042 (Apr. 2022), p. 084042. DOI: 10.1103/PhysRevD.105.084042. arXiv: 2203.13826 [gr-qc].

[24] Jack Runburg et al. "Consistent Analysis of the AGN LF in X-Ray and MIR in the XMM-LSS Field". In: *ApJ* 924.2, 133 (Jan. 2022), p. 133. DOI: 10.3847/1538-4357/ac37b8. arXiv: 2112.00082 [astro-ph.GA].

[25] Kevin S. Croker et al. "Cosmologically Coupled Compact Objects: A Single-parameter Model for LIGO-Virgo Mass and Redshift Distributions". In: *ApJ* 921.2, L22 (Nov. 2021), p. L22. DOI: 10.3847/2041-8213/ac2fad. arXiv: 2109.08146 [gr-qc].

[26] F. Gao et al. "The nature of hyperluminous infrared galaxies". In: *A&A* 654, A117 (Oct. 2021), A117. DOI: 10.1051/0004-6361/202141358. arXiv: 2107.08703 [astro-ph.GA].

[27] Jason Glenn et al. "Galaxy Evolution Probe". In: *Journal of Astronomical Telescopes, Instruments, and Systems* 7, 034004 (July 2021), p. 034004. DOI: 10.1117/1.JATIS.7.3.034004. arXiv: 2109.00614 [astro-ph.GA].

[28] S. M. Stach et al. "An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: halo masses for submillimetre galaxies". In: *MNRAS* 504.1 (June 2021), pp. 172–184. DOI: 10.1093/mnras/stab714. arXiv: 2102.12510 [astro-ph.GA].

[29] Andreas Efstathiou et al. "A hyperluminous obscured quasar at a redshift of $z \approx 4.3$". In: *MNRAS* 503.1 (May 2021), pp. L11–L16. DOI: 10.1093/mnrasl/slaa206. arXiv: 2103.08032 [astro-ph.GA].

[30] L. Wang et al. "The bright end of the infrared luminosity functions and the abundance of hyperluminous infrared galaxies". In: *A&A* 648, A8 (Apr. 2021), A8. DOI: 10.1051/0004-6361/202038811. arXiv: 2011.08798 [astro-ph.GA].

[31] M. Lacy et al. "A Spitzer survey of Deep Drilling Fields to be targeted by the Vera C. Rubin Observatory Legacy Survey of Space and Time". In: *MNRAS* 501.1 (Feb. 2021), pp. 892–910. DOI: 10.1093/mnras/staa3714. arXiv: 2011.15030 [astro-ph.GA].

[32] H. S. B. Algera et al. "An ALMA Survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS Field: The Far-infrared/Radio Correlation for High-redshift Dusty Star-forming Galaxies". In: *ApJ* 903.2, 138 (Nov. 2020), p. 138. DOI: 10.3847/1538-4357/abb77b. arXiv: 2009.06647 [astro-ph.GA].

[33] A. Annuar et al. "NuSTAR observations of four nearby X-ray faint AGNs: low luminosity or heavy obscuration?" In: *MNRAS* 497.1 (Sept. 2020), pp. 229–245. DOI: 10.1093/mnras/staa1820. arXiv: 2006.13583 [astro-ph.HE].

[34] K. S. Croker, J. Runburg, and D. Farrah. "Implications of Symmetry and Pressure in Friedmann Cosmology. III. Point Sources of Dark Energy that Tend toward Uniformity". In: *ApJ* 900.1, 57 (Sept. 2020), p. 57. DOI: 10.3847/1538-4357/abad2f.

[35] Arianna S. Long et al. "Emergence of an Ultrared, Ultramassive Galaxy Cluster Core at z = 4". In: *ApJ* 898.2, 133 (Aug. 2020), p. 133. DOI: 10.3847/1538-4357/ab9d1f. arXiv: 2003.13694 [astro-ph.GA].

[36] U. Dudzevičiūtė et al. "An ALMA survey of the SCUBA-2 CLS UDS field: physical properties of 707 sub-millimetre galaxies". In: *MNRAS* 494.3 (Apr. 2020), pp. 3828–3860. DOI: 10.1093/mnras/staa769. arXiv: 1910.07524 [astro-ph.GA].

[37] M. P. Koprowski et al. "An ALMA survey of the SCUBA-2 cosmology legacy survey UKIDSS/UDS field: Dust attenuation in high-redshift Lyman-break galaxies". In: *MNRAS* 492.4 (Mar. 2020), pp. 4927–4944. DOI: 10.1093/mnras/staa160. arXiv: 2001.00402 [astro-ph.GA].

[38] Chian-Chou Chen et al. "Extended Hα over compact far-infrared continuum in dusty submillimeter galaxies. Insights into dust distributions and star-formation rates at z $\sim$ 2". In: *A&A* 635, A119 (Mar. 2020), A119. DOI: 10.1051/0004-6361/201936286. arXiv: 2002.03545 [astro-ph.GA].

[39] Nick Krefting et al. "The Role of Environment in Galaxy Evolution in the SERVS Survey. I. Density Maps and Cluster Candidates". In: *ApJ* 889.2, 185 (Feb. 2020), p. 185. DOI: 10.3847/1538-4357/ab60a0. arXiv: 1912.02238 [astro-ph.GA].

[40] K. S. Croker, K. A. Nishimura, and D. Farrah. "Implications of Symmetry and Pressure in Friedmann Cosmology. II. Stellar Remnant Black Hole Mass Function". In: *ApJ* 889.2, 115 (Feb. 2020), p. 115. DOI: 10.3847/1538-4357/ab5aff. arXiv: 1904.03781 [astro-ph.CO].

[41] S. Duivenvoorden et al. "Have we seen all the galaxies that comprise the cosmic infrared background at 250 μm $\leq \lambda \leq$ 500 μm?" In: *MNRAS* 491.1 (Jan. 2020), pp. 1355–1368. DOI: 10.1093/mnras/stz3110. arXiv: 1911.01437 [astro-ph.GA].

[42] J. Greenslade et al. "A SCUBA-2 selected Herschel-SPIRE dropout and the nature of this population". In: *MNRAS* 490.4 (Dec. 2019), pp. 5317–5334. DOI: 10.1093/mnras/stz2850. arXiv: 1910.03512 [astro-ph.GA].

[43] B. Gullberg et al. "An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: high-resolution dust continuum morphologies and the link between sub-millimetre galaxies and spheroid formation". In: *MNRAS* 490.4 (Dec. 2019), pp. 4956–4974. DOI: 10.1093/mnras/stz2835. arXiv: 1910.01121 [astro-ph.GA].

[44] Raphael Shirley et al. "HELP: a catalogue of 170 million objects, selected at 0.36-4.5 μm, from 1270 deg^2 of prime extragalactic fields". In: *MNRAS* 490.1 (Nov. 2019), pp. 634–656. DOI: 10.1093/mnras/stz2509. arXiv: 1909.04003 [astro-ph.GA].

[45] L. Wang et al. "A LOFAR-IRAS cross-match study: the far-infrared radio correlation and the 150 MHz luminosity as a star-formation rate tracer". In: *A&A* 631, A109 (Nov. 2019), A109. DOI: 10.1051/0004-6361/201935913. arXiv: 1909.04489 [astro-ph.GA].

[46] Ray P. Norris et al. "A Comparison of Photometric Redshift Techniques for Large Radio Surveys". In: *PASP* 131.1004 (Oct. 2019), p. 108004. DOI: 10.1088/1538-3873/ab0f7b. arXiv: 1902.05188 [astro-ph.IM].

[47] A. P. Thomson et al. "Radio Spectra and Sizes of Atacama Large Millimeter/submillimeter Array-identified Submillimeter Galaxies: Evidence of Age-related Spectral Curvature and Cosmic-Ray Diffusion?" In: *ApJ* 883.2, 204 (Oct. 2019), p. 204. DOI: 10.3847/1538-4357/ab32e7. arXiv: 1904.08944 [astro-ph.GA].

[48] R. Marques-Chaves et al. "Discovery of a giant and luminous Lyα+C IV+He II nebula at z = 3.326 with extreme emission line ratios". In: *A&A* 629, A23 (Sept. 2019), A23. DOI: 10.1051/0004-6361/201936013. arXiv: 1907.08486 [astro-ph.GA].

[49] Stuart M. Stach et al. "An ALMA survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS field: source catalogue and properties". In: *MNRAS* 487.4 (Aug. 2019), pp. 4648–4668. DOI: 10.1093/mnras/stz1536. arXiv: 1903.02602 [astro-ph.GA].

[50] Lura K. Pitchford et al. "The mid-infrared and CO gas properties of an extreme star-forming FeLoBAL quasar". In: *MNRAS* 487.3 (Aug. 2019), pp. 3130–3139. DOI: 10.1093/mnras/stz1471. arXiv: 1906.01640 [astro-ph.GA].

[51] M. Pereira-Santaella et al. "Optical integral field spectroscopy of intermediate redshift infrared bright galaxies". In: *MNRAS* 486.4 (July 2019), pp. 5621–5645. DOI: 10.1093/mnras/stz1218. arXiv: 1904.13267 [astro-ph.GA].

[52] Philipp Lang et al. "Revealing the Stellar Mass and Dust Distributions of Submillimeter Galaxies at Redshift 2". In: *ApJ* 879.1, 54 (July 2019), p. 54. DOI: 10.3847/1538-4357/ab1f77. arXiv: 1905.06960 [astro-ph.GA].

[53] Duncan Farrah et al. "Review: far-infrared instrumentation and technological development for the next decade". In: *Journal of Astronomical Telescopes, Instruments, and Systems* 5, 020901 (Apr. 2019), p. 020901. DOI: 10.1117/1.JATIS.5.2.020901.

[54] D. Porquet et al. "A deep X-ray view of the bare AGN Ark 120. V. Spin determination from disc-Comptonisation efficiency method". In: *A&A* 623, A11 (Mar. 2019), A11. DOI: 10.1051/0004-6361/201834448. arXiv: 1901.01812 [astro-ph.HE].

[55] David L. Clements et al. "AKARI and IRAS: From beam corrections to SEDs". In: *PASJ* 71.1, 7 (Jan. 2019), p. 7. DOI: 10.1093/pasj/psy099. arXiv: 1808.03563 [astro-ph.GA].

[56] J. Molina et al. "VALES V: a kinematic analysis of the molecular gas content in H-ATLAS galaxies at z $\sim$ 0.03-0.35 using ALMA". In: *MNRAS* 482.2 (Jan. 2019), pp. 1499–1524. DOI: 10.1093/mnras/sty2577. arXiv: 1809.10752 [astro-ph.GA].

[57] Pallavi Patil et al. "Multiband Optical and Near-Infrared Properties of Faint Submillimeter Galaxies with Serendipitous ALMA Detections". In: *ApJ* 871.1, 109 (Jan. 2019), p. 109. DOI: 10.3847/1538-4357/aaf7a4. arXiv: 1812.04108 [astro-ph.GA].

[58] Lauranne Lanz et al. "Investigating the Covering Fraction Distribution of Swift/BAT AGNs with X-Ray and Infrared Observations". In: *ApJ* 870.1, 26 (Jan. 2019), p. 26. DOI: 10.3847/1538-4357/aaee6c. arXiv: 1811.02570 [astro-ph.GA].

[59] E. Hatziminaoglou et al. "On the multiplicity of ALMA Compact Array counterparts of far-infrared bright quasars". In: *MNRAS* 480.4 (Nov. 2018), pp. 4974–4990. DOI: 10.1093/mnras/sty2073. arXiv: 1809.00856 [astro-ph.GA].

[60] Jillian M. Scudder et al. "Cosmic happenstance: 24-μm selected, multicomponent Herschel sources are line-of-sight projections". In: *MNRAS* 480.3 (Nov. 2018), pp. 4124–4137. DOI: 10.1093/mnras/sty2009. arXiv: 1807.09790 [astro-ph.GA].

[61] D. J. K. Buisson et al. "NuSTAR observations of Mrk 766: distinguishing reflection from absorption". In: *MNRAS* 480.3 (Nov. 2018), pp. 3689–3701. DOI: 10.1093/mnras/sty2081. arXiv: 1808.00014 [astro-ph.HE].

[62] K. Małek et al. "HELP: modelling the spectral energy distributions of Herschel detected galaxies in the ELAIS N1 field". In: *A&A* 620, A50 (Nov. 2018), A50. DOI: 10.1051/0004-6361/201833131. arXiv: 1809.00529 [astro-ph.GA].

[63] M. Rowan-Robinson et al. "Extreme submillimetre starburst galaxies". In: *A&A* 619, A169 (Nov. 2018), A169. DOI: 10.1051/0004-6361/201832671. arXiv: 1704.07783 [astro-ph.GA].

[64] M. P. Koprowski et al. "A direct calibration of thtae IRX-β relation in Lyman-break Galaxies at z = 3-5". In: *MNRAS* 479.4 (Oct. 2018), pp. 4355–4366. DOI: 10.1093/mnras/sty1527. arXiv: 1801.00791 [astro-ph.GA].

[65] M. Lacy et al. "A Subarcsecond Near-infrared View of Massive Galaxies at z $>$ 1 with Gemini Multi-conjugate Adaptive Optics". In: *ApJ* 864.1, 8 (Sept. 2018), p. 8. DOI: 10.3847/1538-4357/aad27d. arXiv: 1807.03324 [astro-ph.GA].

[66] Fang Xia An et al. "A Machine-learning Method for Identifying Multiwavelength Counterparts of Submillimeter Galaxies: Training and Testing Using AS2UDS and ALESS". In: *ApJ* 862.2, 101 (Aug. 2018), p. 101. DOI: 10.3847/1538-4357/aacdaa. arXiv: 1806.06859 [astro-ph.GA].

[67] E. A. Cooke et al. "An ALMA Survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS Field: Identifying Candidate z $\sim$ 4.5 [C II] Emitters". In: *ApJ* 861.2, 100 (July 2018), p. 100. DOI: 10.3847/1538-4357/aac6ba. arXiv: 1805.05363 [astro-ph.GA].

[68] W. J. Pearson et al. "Main sequence of star forming galaxies beyond the Herschel confusion limit". In: *A&A* 615, A146 (July 2018), A146. DOI: 10.1051/0004-6361/201832821. arXiv: 1804.03482 [astro-ph.GA].

[69] Ryley Hill et al. "High-resolution SMA imaging of bright submillimetre sources from the SCUBA-2 Cosmology Legacy Survey". In: *MNRAS* 477.2 (June 2018), pp. 2042–2067. DOI: 10.1093/mnras/sty746. arXiv: 1710.02231 [astro-ph.GA].

[70] S. Duivenvoorden et al. "Red, redder, reddest: SCUBA-2 imaging of colour-selected Herschel sources". In: *MNRAS* 477.1 (June 2018), pp. 1099–1119. DOI: 10.1093/mnras/sty691. arXiv: 1801.07266 [astro-ph.GA].

[71] S. Dye et al. "Modelling high-resolution ALMA observations of strongly lensed highly star-forming galaxies detected by Herschel". In: *MNRAS* 476.4 (June 2018), pp. 4383–4394. DOI: 10.1093/mnras/sty513. arXiv: 1705.05413 [astro-ph.GA].

[72] Stuart M. Stach et al. "An ALMA Survey of the SCUBA-2 Cosmology Legacy Survey UKIDSS/UDS Field: Number Counts of Submillimeter Galaxies". In: *ApJ* 860.2, 161 (June 2018), p. 161. DOI: 10.3847/1538-4357/aac5e5. arXiv: 1805.05362 [astro-ph.GA].

[73] J. Greenslade et al. "Candidate high-z protoclusters among the Planck compact sources, as revealed by Herschel-SPIRE". In: *MNRAS* 476.3 (May 2018), pp. 3336–3359. DOI: 10.1093/mnras/sty023. arXiv: 1712.07141 [astro-ph.GA].

[74] Christopher C. Hayward et al. "Observational constraints on the physical nature of submillimetre source multiplicity: chance projections are common". In: *MNRAS* 476.2 (May 2018), pp. 2278–2287. DOI: 10.1093/mnras/sty304. arXiv: 1802.00452 [astro-ph.GA].

[75] Avani Gowardhan et al. "The Dual Role of Starbursts and Active Galactic Nuclei in Driving Extreme Molecular Outflows". In: *ApJ* 859.1, 35 (May 2018), p. 35. DOI: 10.3847/1538-4357/aabccc. arXiv: 1804.03147 [astro-ph.GA].

[76] B. Gullberg et al. "The Dust and [C II] Morphologies of Redshift ∼4.5 Sub-millimeter Galaxies at ∼200 pc Resolution: The Absence of Large Clumps in the Interstellar Medium at High-redshift". In: *ApJ* 859.1, 12 (May 2018), p. 12. DOI: 10.3847/1538-4357/aabe8c. arXiv: 1804.03663 [astro-ph.GA].

[77] J. A. Zavala et al. "The SCUBA-2 Cosmology Legacy Survey: The EGS deep field - II. Morphological transformation and multiwavelength properties of faint submillimetre galaxies". In: *MNRAS* 475.4 (Apr. 2018), pp. 5585–5602. DOI: 10.1093/mnras/sty217. arXiv: 1801.07718 [astro-ph.GA].

[78] D. L. Clements et al. "HERUS: the far-IR/submm spectral energy distributions of local ULIRGs and photometric atlas". In: *MNRAS* 475.2 (Apr. 2018), pp. 2097–2121. DOI: 10.1093/mnras/stx3227. arXiv: 1712.04843 [astro-ph.GA].

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