

Itziar Aretxaga, Publication List

Refereed papers:

1. Zavala J.A. et al. (inc. I. Aretxaga), *ApJL*, 2023, in press: *Dusty starbursts masquerading as ultra-high redshift galaxies in JWST CEERS observations*
2. Cardona-Torres, L., Aretxaga, I., Montaña, A., Zavala, J.A., Faber, S.M. *MNRAS*, 2022, en prensa (doi:10.1093/mnras/stac2868, 2022 Octubre): *The SCUBA-2 Cosmology Legacy Survey: The EGS deep field - III. The evolution of faint submillimeter galaxies at $z < 4$*
3. Rocha-Solache, A., Rodríguez-Montoya, I., Sánchez-Argüelles, D., Aretxaga I., *ApJS*, 2022, *ApJS* 260,15. *Time-domain deep learning filtering of structured atmospheric noise for ground-based millimeter astronomy*
4. Berman, D. A., Yun, M. S., Harrington, K. C., Kamieneski, P., Lowenthal, J., Frye, B. L., Wang, Q. D., Wilson, G. W., Aretxaga, I., et al. ,2022, *MNRAS*, 515, 3911. "PASSAGES: *The Large Millimeter Telescope and ALMA Observations of Extremely Luminous High Redshift Galaxies Identified by the Planck*"
5. Montaña, A., Zavala, J. A., Aretxaga, I., Hughes, D. H., Ivison, R. J., Pope, A., Sánchez-Argüelles, D., Wilson, G. W., Yun, M., Cantua, O. A., McCrackan, M., Michałowski, M. J., Valiante, E., Arumugam, V., Casey, C. M., Chávez, R., Colín-Beltrán, E., Dannerbauer, H., Dunlop, J. S., Dunne, L., Eales, S., Ferrusca, D., Gómez-Rivera, V., Gómez-Ruiz, A. I., de la Luz, V. H., Maddox, S. J., Narayanan, G., Omont, A., Rodríguez-Montoya, I., Serjeant, S., Schloerb, F. P., Velázquez, M., Ventura-González, S., van der Werf, P., & Zeballos, M., 2021, *MNRAS*, Volume 505, Issue 4, pp.5260-5282. *Early Science with the Large Millimeter Telescope: a 1.1 mm AzTEC Survey of Red-Herschel dusty star-forming galaxies.*
6. Martínez-Paredes, M. ; González-Martín, O. ; HyeongHan, K. ; Geier, S. ; García-Bernete, I. ; Ramos Almeida, C. ; Alonso-Herrero, A. ; Aretxaga, I. ; Kim, M. ; Sohn, B. W. ; Masegosa, J., *ApJ*, 2021, 922, 157: *Modeling the unresolved NIR-MIR SEDs of local ($z < 0.1$) QSOs*
7. A. Pichel, C. Donzelli, D. Rosa-Gonzalez, M. Fernandez Alonso, A. C. Rovero, H. Muriel, Y. D. Mayya, I. Aretxaga, J. Becerra González, A. Carramiñana, J. Mendez-Abreu, O. Vega, E. Terlevich, and R. J. Terlevich, 2021, *PASP*, 133, 4102: *New Observations with Gemini and GTC of the VHE Blazar KUV 00311-1938: About Its Redshift and Environment*
8. Cruz-González, I.; Gómez-Ruiz, A. I.; Caldú-Primo, A.; Benítez, E.; Rodríguez-Espinosa, J. M.; Krongold, Y.; Aretxaga, I.; Snell, R.; González-Martín, O.; Negrete, C. A.; Narayanan, G.; Hughes, D. H.; Yun, M. S.; Fazio, G. G.; Chavushyan, V.; Hiriart, D.; Jiménez-Bailón, E.; Herrera-Endoqui, M.; Martínez-Paredes, M.; González, J. J., 2020, *MNRAS*, 499, 2042: *Early science with the LMT: molecular torus in UGC 5101*
9. Zaragoza-Cardiel, Javier; Fritz, Jacopo; Aretxaga, Itziar; Mayya, Yalia D.; Rosa-González, Daniel; Beckman, John E.; Bruzual, Gustavo; Charlot, Stephane, 2020, *MNRAS*, 499, 1172: *A quantitative demonstration that stellar feedback locally regulates galaxy growth*
10. Rodríguez-Puebla, A.; Avila-Reese, V.; Cano-Díaz, M.; Faber, S. M., Primack, J. R., Franco, J., Aretxaga, I., Santiago-Mayoral, E., 2020, *ApJ*, 905, 171: *The star-forming main sequence and the contribution of dust-obscured star formation since $z=4$ from the FUV+IR luminosity functions*
11. Jiménez-Andrade, E. F.; Zavala, J. A.; Magnelli, B.; Casey, C. M.; Liu, D.; Romano-Díaz, E.; Schinnerer, E.; Harrington, K.; Aretxaga, I.; Karim, A.; Staguhn, J.; Burnham, A. D. et al. 2020, *ApJ*, 890, 171: *The redshift and star formation mode of AzTEC2: a pair of massive galaxies at $z=4.63$*
12. Tadaki, Ken-ichi; Iono, Daisuke; Yun, Min S.; Aretxaga, Itziar; Hatsukade, Bunyo; Lee, Minju M.; Michiyama, Tomonari; Nakanishi, Kouichiro; Saito, Toshiki; Ueda, Junko; Umehata, Hideki; 2020, *ApJ* 889,141: *A non-corotating gas component in an extreme starburst at $z=4.3$*
13. Martínez-Paredes M.; González-Martín, O.; Esparza-Arredondo, D.; Kim, M.; Alonso-Herrero, A.; Krongold, Y.; Hoang, T.; Ramos Almeida, C.; Aretxaga, I.; Dultzin, D.; Hodgson, J., 2020, *ApJ*, 890, 152: *Modelling the strongest silicate emission features of local type 1 AGN*
14. Greenslade, J., Aguilar, E., Clements, D.L., et al. ,2019, *Monthly Notices of the Royal Astronomical Society*, 490, 5317: *A SCUBA-2 selected Herschel-SPIRE dropout and the nature of this population*
15. Lee, M.M., Tanaka, I., Kawabe, R., Aretxaga, I., Hatsukade, B., Izumi, T., et al., 2019, *The Astrophysical Journal*, 883, 92: *A Radio-to-millimeter Census of Star-forming Galaxies in Protocluster 4C 23.56 at $z = 2.5$: Global and Local Gas Kinematics*

16. Sharda, P., da Cunha, E., Federrath, C., Wisnioski, E., Di Teodoro, E.M., Tadaki, K., Yun, M.S., Aretxaga, I., and Kawabe, R., 2019, *Monthly Notices of the Royal Astronomical Society*, 487, 4305: *"Testing star formation laws on spatially resolved regions in a $z \approx 4.3$ starburst galaxy"*
17. **Zaragoza-Cardiel, J.**, Fritz, J., Aretxaga, I., Mayya, D., Rosa-González, D., Beckman, J.E., Bruzual, G., Charlot, S., and Lomeli-Núñez, L., 2019, *Monthly Notices of the Royal Astronomical Society*, 487, L61: *"Detection of the self-regulation of star formation in galaxy discs"*
18. Rosa González, D., Muriel, H., Mayya, Y.D., Aretxaga, I., Becerra González, J., Carramiñana, A., et al. 2019, *Monthly Notices of the Royal Astronomical Society*, 482, 5422: *New GTC spectroscopic data and a statistical study to better constrain the redshift of the BL Lac RGB J2243 + 203*
19. **Martínez-Paredes, M.**, Aretxaga, I., González-Martín, O., Alonso-Herrero, A., Levenson, N.A., Ramos Almeida, C., and López-Rodríguez, E., 2019, *The Astrophysical Journal*, 871, 190: *Quantifying Star Formation Activity in the Inner 1 kpc of Local MIR Bright QSOs*
20. Hansung B. Gim, Min S. Yun, Frazer N. Owen, Emmanuel Momjian, Neal A. Miller, Mauro Giavalisco, Grant Wilson, James D. Lowenthal, Itziar Aretxaga et al., 2019, *ApJ*, 875, 80: *Nature of Faint Radio Sources in GOODS-North and GOODS-South Fields - I. Spectral Index and Radio-FIR Correlation*
21. Hatsukade, Bunyo; Kohno, Kotaro; Yamaguchi, Yuki; Umehata, Hideki; Ao, Yiping; Aretxaga, Itziar; Caputi, Karina I.; Dunlop, James S. et al. 2018, *PASJ*, in press: *ALMA twenty-six arcmin² survey of GOODS-S at one millimeter (ASAGAO): Source catalog and number counts*
22. Longinotti, A. L.; Vega, O.; Krongold, Y.; Aretxaga, I.; Yun, M.; Chavushyan, V.; Feruglio, C.; Gómez-Ruiz, A. et al. 2018, *ApJ*, 967, L11: *Early Science with the Large Millimeter Telescope: An Energy-driven Wind Revealed by Massive Molecular and Fast X-Ray Outflows in the Seyfert Galaxy IRAS 17020+4544*
23. Takekoshi, Tatsuya; Minamidani, Tetsuhiro; Komugi, Shinya; Kohno, Kotaro; Tosaki, Tomoka; Sorai, Kazuo; Muller, Erik; Mizuno, Norikazu; et al. 2018, *ApJ*, 867, 117: *The Dust-selected Molecular Clouds in the Northeast Region of the Small Magellanic Cloud*
24. **Zeballos M.**, Aretxaga I., Hughes D.H., Humphrey A., Wilson G.W., Austermann J. et al., 2018, *MNRAS*, 479, 4577: *AzTEC 1.1 mm observations of high-z protocluster environments: SMG overdensities and misalignment between AGN jets and SMG distribution*
25. Jin, S., Daddi, E., Liu, D., Smolcic, V., Schinnerer, E., Calabro, A., Gu, Q. et al., 2018, *ApJ* 864, 56: *"Super-deblended" Dust Emission in Galaxies. II. Far-IR to (Sub)millimeter Photometry and High-redshift Galaxy Candidates in the Full COSMOS Field"*
26. Tadaki, K., Iono, D., Yun, M. S., Aretxaga, I., Hatsukade, B., Hughes, D. H. et al., 2018, *Nature*, 560, 613: *The gravitationally unstable gas disk of a starburst galaxy 12 billion years ago*
27. **Zavala, J. A.**, Aretxaga, I., Dunlop, J. S., Michalowski, M. J., Hughes, D. H., Bourne, N., et al., 2018, *MNRAS* 475, 5585: *The SCUBA-2 Cosmology Legacy Survey: The EGS deep field - II. Morphological transformation and multiwavelength properties of faint submillimetre galaxies*
28. Gobat, R., Daddi, E., Magdis, G., Bournaud, F., Sargent, M., Martig, M. et al. 2018, *Nature Astronomy*, 2, 239: *The unexpectedly large dust and gas content of quiescent galaxies at $z > 1.4$*
29. **Rodríguez-Montoya, I.**, Sánchez-Arguelles, D., Aretxaga, I., Bertone, E., Chávez-Dagostino, M., Hughes, D. H., et al. 2018, *ApJS*, 235, 12: *Multiple-component Decomposition from Millimeter Single-channel Data*
30. **Zavala, J. A.**, Montaña, A., Hughes, D. H., Yun, M. S., Ivison, R. J., Valiante, E. et al., 2018, *Nature Astronomy*, 2, 56: *A dusty star-forming galaxy at $z = 6$ revealed by strong gravitational lensing*
31. Ueda, Y., Hatsukade, B., Kohno, K., Yamaguchi, Y., Tamura, Y., Umehata, H., et al., 2018, *ApJ*, 853, 24: *ALMA 26 arcmin² Survey of GOODS-S at One-millimeter (ASAGAO): X-Ray AGN Properties of Millimeter-selected Galaxies*
32. Ikarashi, S., Caputi, K. I., Ohta, K., Ivison, R. J., Lagos, C. D. P., Bisigello, L. et al., 2017, *ApJ* 849, L36: *Very Compact Millimeter Sizes for Composite Star-forming/AGN Submillimeter Galaxies*
33. Chanchaiworawit, K., Guzmán, R., Rodríguez Espinosa, J. M., Castro-Rodríguez, N., Salvador-Solé, E., Calvi, R. et al., 2017, *MNRAS*, 469, 2646: *Gran Telescopio Canarias observations of an overdense region of Lyman λ emitters at $z = 6.5$*

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Detection of a Substantial Molecular Gas Reservoir in a Brightest Cluster Galaxy at $z = 1.7$
35. Roberts-Borsani, G. W., Jiménez-Donaire, M. J., Daprà, M., Alatalo, K., Aretxaga, I., Álvarez-Márquez, J. et al., 2017, ApJ 844, 110:
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36. Michalowski, M. J., Dunlop, J. S., Koprowski, M. P., Cirasuolo, M., Geach, J. E., Bowler, R. A. A. et al., 2017, MNRAS 469, 492:
The SCUBA-2 Cosmology Legacy Survey: the nature of bright submm galaxies from 2 deg² of 850um imaging
37. Lee, M. M., Tanaka, I., Kawabe, R., Kohno, K., Kodama, T., Kajisawa, M. et al., 2017, ApJ 842, 55:
A Radio-to-mm Census of Star-forming Galaxies in Protocluster 4C23.56 at $z = 2.5$: Gas Mass and Its Fraction Revealed with ALMA
38. González-Martín, O., Masegosa, J., Hernán-Caballero, A., Márquez, I., Ramos Almeida, C., Alonso-Herrero, A., Aretxaga, I. et al., 2017, ApJ 841, 37:
Hints on the Gradual Resizing of the Torus in AGNs through Decomposition of Spitzer/IIRS Spectra
39. Pope, A., Montaña, A., Battisti, A., Limousin, M., Marchesini, D., Wilson, G. W. et al., 2017, ApJ 838, 137:
Early Science with the Large Millimeter Telescope: Detection of Dust Emission in Multiple Images of a Normal Galaxy at $z > 4$ Lensed by a Frontier Fields Cluster
40. [Martínez-Paredes M.](#), Aretxaga I., Alonso-Herrero A., González-Martín O., López-Rodríguez E., Ramos Almeida C. et al., 2017, MNRAS, 468, 2:
The dusty tori of nearby QSOs as constrained by high-resolution mid-IR observations
41. Ikarashi, S., Ivison, R. J., Caputi, K. I., Nakanishi, K., Lagos, C. D. P., Ashby, M. L. N. et al. 2017, ApJ, 835, 286:
Extremely Red Submillimeter Galaxies: New $z \sim 4-6$ Candidates Discovered using ALMA and Jansky VLA
42. Dunlop J.S. et al., 2017, MNRAS, 466, 861:
A deep ALMA image of the Hubble Ultra Deep Field
43. Rosa-González, D., Coutiño de León, S., Mayya, Y. D., Carramiñana, A., Aretxaga, I., Becerra González, J. et al. 2017, MNRAS 466, 540:
On the redshifts of the BL Lac 3FGL J0909.0+2310 and its close companion
44. Geach J.E., Dunlop, J. S., Halpern, M., Smail, I., van der Werf, P., Alexander, D. M. et al., 2017, MNRAS, 465, 1789:
The SCUBA-2 Cosmology Legacy Survey: 850um maps, catalogues and number counts
45. [Zavala, J. A.](#), Aretxaga, I., Geach, J. E., Hughes, D. H., Birkinshaw, M., Chapin, E. et al., 2017, MNRAS 464, 3369:
The SCUBA-2 Cosmology Legacy Survey: the EGS deep field - I. Deep number counts and the redshift distribution of the recovered cosmic infrared background at 450 and 850um
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The 1.1 mm Continuum Survey of the Small Magellanic Cloud: Physical Properties and Evolution of the Dust-selected Clouds
47. Alonso-Herrero, A. et al. 2016, MNRAS 463, 2405:
The complex evolutionary paths of local infrared bright galaxies: a high-angular resolution mid-infrared view
48. Wang, W.-H. et al. 2016, ApJ 833, 195:
The SXDF-ALMA 2-arcmin² Deep Survey: Stacking Rest-frame Near-infrared Selected Objects
49. Iono, D., Yun, M. S., Aretxaga, I. et al., 2016, ApJ 829, L10:
Clumpy and Extended Starbursts in the Brightest Unlensed Submillimeter Galaxies
50. Terlevich R., et al., 2016, AA, 592, L7:
Direct measurement of lensing amplification in Abell S1063 using a strongly lensed high redshift HII Galaxy
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53. Wall W.F. et al., 2016, MNRAS, 459, 1440:
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54. Koprowski, M.P., Dunlop J.S. et al., 2016, MNRAS, 459, 1440:
The SCUBA-2 Cosmology Legacy Survey: galaxies in the deep 850-micron survey, and the star-forming 'main sequence'
55. Hatsukade B. et al., 2016, PASJ, 68, 36:
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56. Chen Ch-Ch., Smail I., Ivison R.J. et al., 2016, ApJ, 820, 82:
The SCUBA-2 Cosmology Legacy Survey: Multi-wavelength counterparts to 10³ submillimeter galaxies in the UKIDSS-UDS field
57. Alonso-Herrero A., Esquej P., Roche P.F. et al. 2016, MNRAS, 455, 563:
A mid-infrared spectroscopic atlas of local active galactic nuclei on sub-arcsecond resolution using GTC/CanariCam
58. [Martinez-Paredes M.](#), Alonso-Herrero A., Aretxaga I. et al. 2015, MNRAS, 454, 3577:
A deep look at the nuclear region of UGC 5101 through high angular resolution mid-IR data with GTC/CanariCam
59. Yun, M.S., Aretxaga I., Gurwell M. A., et al. 2015, MNRAS, 454, 3485:
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60. [Zavala J.A.](#), Michalowski M.J., Aretxaga I. et al. 2015, MNRAS, 453, L88:
Early science with the Large Millimeter Telescope: dust constraints in a z = 9.6 galaxy
61. Tadaki K., Kohno K., Kodama, T. et al. 2015, ApJL, 811, 3:
SXDF-ALMA 1.5 arcmin² Deep Survey: A Compact Dusty Star-forming Galaxy at z = 2.5
62. Ikarashi S., Ivison R.J., Caputi K.I., Aretxaga I., Dunlop J.S. et al, ApJ, 810, 133:
Compact Starbursts in z=3-6 Submillimeter Galaxies Revealed by ALMA
63. Tamura Y., Kawabe R., Shimajiri Y. et al. 2015, 808, 121:
Extremely Bright Submillimeter Galaxies beyond the Lupus-I Star-forming Region
64. [Zavala J.A.](#), Yun M.S. Aretxaga I. et al. 2015, MNRAS, 452, 1140:
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66. [Humphrey A.](#) et al. 2015, MNRAS, 447, 3322:
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67. Kirkpatrick A. et al. 2014, ApJ, 796, 135:
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68. Ramos-Almeida C. et al. 2014, MNRAS, 445, 1130:
A mid-infrared view of the inner parsecs of the Seyfert galaxy Mrk 1066 using CanariCam/GTC
69. Alonso-Herrero, A. et al., 2014, MNRAS, 443, 2766:
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70. [Zavala J.](#), Aretxaga I., Hughes D.H., 2014, MNRAS, 443, 2384:
The redshift distribution of submillimetre galaxies at different wavelengths
71. Umehata H. et al., 2014, MNRAS, 440, 3462:
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Subaru Spectroscopy and Spectral Modeling of Cygnus A
73. Esquej P. et al., 2014, ApJ, 780, 86:
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74. Alonso-Herrero A. et al., 2013, ApJ, 779, 14:
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Detection of an Ultra-bright Submillimeter Galaxy behind the Small Magellanic Cloud
76. Geach J.E. et al., 2013, MNRAS, 432, 53:
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Detection of an ultra-bright submillimeter galaxy in the Subaru/XMM-Newton Deep Field using AzTEC/ASTE
93. Smolcic V., Capak P., Ilbert O., Blain A. W., Salvato M., Aretxaga I., Schinnerer E., Masters D et al. (31 coauthors), 2011, ApJL, 731, 27:
The Redshift and Nature of AzTEC/COSMOS 1: A Starburst Galaxy at $z = 4.6$
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2. 2022/6/13 Las galaxias polvorientas más extremas del Universo (on Berman et al, ApJ)
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4. 2021/06/29: ¿Es una galaxia grande o varias chiquitas? (on Montaña et al. 2021)
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