
List of Publications

as of Jan 13, 2022

Number of refereed first-author articles: 12 — Total citations: 403.

Number of refereed articles: 62 — Total citations: 2095.

h-index: 20

Refereed Publications

1. Shukla, G., R. Srianand, N. Gupta, P. Petitjean, A. J. Baker, J.-K. **Krogager**, and P. Noterdaeme (2022), “Spatially resolved Lyman- α emission around radio bright quasars,” *Monthly Notices of the Royal Astronomical Society*, 510, 786.
2. Telikova, K. N., S. A. Balashev, P. Noterdaeme, J.-K. **Krogager**, and A. Ranjan (2022), “Extremely strong DLAs at high redshift: Gas cooling and H₂ formation,” *Monthly Notices of the Royal Astronomical Society*, *in press*, DOI: 10.1093/mnras/stab3800.
3. Shukla, G., R. Srianand, N. Gupta, P. Petitjean, A. J. Baker, J.-K. **Krogager**, and P. Noterdaeme (2021), “Spatially resolved Lyman- α emission around radio bright quasars,” *Monthly Notices of the Royal Astronomical Society*, *in press*, DOI: 10.1093/mnras/stab3467.
4. Heintz, K. E., G. Björnsson, M. Neeleman, L. Christensen, J. P. U. Fynbo, P. Jakobsson, J.-K. **Krogager**, T. Laskar, C. Ledoux, G. Magdis, P. Møller, P. Noterdaeme, P. Schady, A. de Ugarte Postigo, F. Valentino, and D. Watson (2021), “GRB host galaxies with strong H₂ absorption: CO-dark molecular gas at the peak of cosmic star formation,” *Monthly Notices of the Royal Astronomical Society*, 507, 1434.
5. De Cia, A., E. B. Jenkins, A. J. Fox, C. Ledoux, T. Ramburuth-Hurt, C. Konstantopoulou, P. Petitjean, and J.-K. **Krogager** (2021), “Large metallicity variations in the Galactic interstellar medium,” *Nature*, 597, 206.
6. Rhodin, N. H. P., J.-K. **Krogager**, L. Christensen, F. Valentino, K. E. Heintz, P. Møller, T. Zafar, and J. P. U. Fynbo (2021), “Absorption-selected galaxies trace the low-mass, late-type, star-forming population at z 2-3,” *Monthly Notices of the Royal Astronomical Society*, 506, 546.
7. Kosenko, D. N., S. A. Balashev, P. Noterdaeme, J.-K. **Krogager**, R. Srianand, and C. Ledoux (2021), “HD molecules at high redshift: cosmic ray ionization rate in the diffuse interstellar medium,” *Monthly Notices of the Royal Astronomical Society*, 505, 3810.
8. Gupta, N., R. Srianand, G. Shukla, J.-K. **Krogager**, P. Noterdaeme, F. Combes, R. Dutta, J. P. U. Fynbo, M. Hilton, E. Momjian, K. Moodley, and P. Petitjean (2021), “Evolution of Cold Gas at $2 < z < 5$: A Blind Search for HI and OH Absorption Lines toward Mid-infrared Color-selected Radio-loud AGN,” *The Astrophysical Journal Supplement Series*, 255, 28.
9. Gupta, N., G. Shukla, R. Srianand, J.-K. **Krogager**, P. Noterdaeme, A. J. Baker, F. Combes, J. P. U. Fynbo, E. Momjian, M. Hilton, T. Hussain, K. Moodley, P. Petitjean, H.-W. Chen, P. Deka, R. Dutta, J. Jose, G. I. G. Jozsa, C. Kaski, H.-R. Klockner, K. Knowles, S. Sikhosana, and J. Wagnveld (2021), “MALS SALT-NOT survey of MIR-selected powerful radio-bright AGN at $0 < z < 5$,” *arXiv e-prints*, arXiv:2107.09705.
10. Noterdaeme, P., S. Balashev, C. Ledoux, G. Duchoquet, S. López, K. Telikova, P. Boissé, J.-K. **Krogager**, A. De Cia, and J. Bergeron (2021),

- “Sharpening quasar absorption lines with ESPRESSO. Temperature of warm gas at $z \sim 2$, constraints on the Mg isotopic ratio, and structure of cold gas at $z \sim 0.5$,” *Astronomy & Astrophysics*, 651, A78.
11. Noterdaeme, P., S. Balashev, F. Combes, N. Gupta, R. Srianand, J.-K. **Krogager**, P. Laursen, and A. Omont (2021),
“Remarkably high mass and velocity dispersion of molecular gas associated with a regular, absorption-selected type I quasar,” *Astronomy & Astrophysics*, 651, A17.
 12. Ramburuth-Hurt, T., A. De Cia, J.-K. **Krogager**, A. J. Fox, E. B. Jenkins, C. Konstantopoulou, C. Ledoux, and D. E. Welty (2021),
“Inhomogeneities and pristine gas infall in the ISM,” *HST Proposal*, 16750.
 13. Noterdaeme, P., S. Balashev, C. Ledoux, G. Duchoquet, S. López, K. Telikova, P. Boissé, J.-K. **Krogager**, A. De Cia, and J. Bergeron (2021),
“Sharpening quasar absorption lines with ESPRESSO: Temperature of warm gas at $z \sim 2$, constraints on the Mg isotopic ratio, and structure of cold gas at $z \sim 0.5$,” *arXiv e-prints*, arXiv:2105.00697.
 14. Combes, F., N. Gupta, S. Muller, S. Balashev, G. I. G. Józsa, R. Srianand, E. Momjian, P. Noterdaeme, H.-R. Klöckner, A. J. Baker, E. Boettcher, A. Bosma, H.-W. Chen, R. Dutta, P. Jagannathan, J. Jose, K. Knowles, J.-K. **Krogager**, V. P. Kulkarni, K. Moodley, S. Pandey, P. Petitjean, and S. Sekhar (2021),
“PKS 1830-211: OH and H I at $z = 0.89$ and the first MeerKAT UHF spectrum,” *Astronomy & Astrophysics*, 648, A116.
 15. Combes, F., N. Gupta, S. Muller, S. Balashev, G. I. G. Jozsa, R. Srianand, E. Momjian, P. Noterdaeme, H.-R. Kloeckner, A. J. Baker, E. Boettcher, A. Bosma, H.-W. Chen, R. Dutta, P. Jagannathan, J. Jose, K. Knowles, J.-K. **Krogager**, V. P. Kulkarni, K. Moodley, S. Pandey, P. Petitjean, and S. Sekhar (2021),
“VizieR Online Data Catalog: PKS 1830-211 OH and HI spectra (Combes+, 2021),” *VizieR Online Data Catalog*, J/A+A/648/A116.
 16. Shukla, G., R. Srianand, N. Gupta, P. Petitjean, A. J. Baker, J.-K. **Krogager**, and P. Noterdaeme (2021),
“Lyman- α emission from a WISE-selected optically faint powerful radio galaxy M151304.72-252439.7 at $z = 3.132$,” *Monthly Notices of the Royal Astronomical Society*, 501, 5362.
 17. Noterdaeme, P., S. Balashev, J.-K. **Krogager**, P. Laursen, R. Srianand, N. Gupta, P. Petitjean, and J. P. U. Fynbo (2021),
“Down-the-barrel observations of a multi-phase quasar outflow at high redshift. VLT/X-shooter spectroscopy of the proximate molecular absorber at $z = 2.631$ towards SDSS J001514+184212,” *Astronomy & Astrophysics*, 646, A108.
 18. Heintz, K. E., J. P. U. Fynbo, S. J. Geier, P. Moller, J.-K. **Krogager**, C. Konstantopoulou, A. de Burgos, L. Christensen, C. L. Steinhardt, B. Milvang-Jensen, P. Jakobsson, E. Hog, B. E. H. K. Arvedlund, C. R. Christiansen, T. B. Hansen, P. D. Henriksen, K. B. Kuzson, I. B. McKenzie, K. A. Mosekjaer, M. F. K. Paulsen, M. N. Sukstorf, S. N. Wilson, and S. K. K. Orgaard (2021),
“VizieR Online Data Catalog: Astrometrically-selected QSO candidates (Heintz+, 2020),” *VizieR Online Data Catalog*, J/A+A/644/A17.
 19. Gupta, N., P. Jagannathan, R. Srianand, S. Bhatnagar, P. Noterdaeme, F. Combes, P. Petitjean, J. Jose, S. Pandey, C. Kaski, A. J. Baker, S. A. Balashev, E. Boettcher, H.-W. Chen, C. Cress, R. Dutta, S. Goedhart, G. Heald, G. I. G. Józsa, E. Kamau, P. Kamphuis, J. Kerp, H.-R. Klöckner, K. Knowles, V. Krishnan, J.-K. **Krogager**, V. P. Kulkarni, E. Momjian, K. Moodley, S. Passmoor, A. Schröder, S. Sekhar, S. Sikhosana, J. Wagnveld, & O. I. Wong (2021),

- “Blind HI and OH Absorption Line Search: First Results with MALS and uGMRT Processed Using ARTIP,” *The Astrophysical Journal*, 907, 11.
20. **Krogager**, J.-K. and P. Noterdaeme (2020), “Modeling the statistics of the cold neutral medium in absorption-selected high-redshift galaxies,” *Astronomy & Astrophysics*, 644, L6.
 21. Heintz, K. E., J. P. U. Fynbo, S. J. Geier, P. Møller, J.-K. **Krogager**, C. Konstantopoulou, A. de Burgos, L. Christensen, C. L. Steinhardt, B. Milvang-Jensen, P. Jakobsson, E. Høg, B. E. H. K. Arvedlund, C. R. Christiansen, T. B. Hansen, P. D. Henriksen, K. B. Kuzson, I. B. McKenzie, K. A. Mosekjær, M. F. K. Paulsen, M. N. Sukstorf, S. N. Wilson, and S. K. K. Ørgaard (2020), “Spectroscopic classification of a complete sample of astrometrically-selected quasar candidates using Gaia DR2,” *Astronomy & Astrophysics*, 644, A17.
 22. Zou, S., P. Petitjean, P. Noterdaeme, C. Ledoux, R. Srianand, L. Jiang, and J.-K. **Krogager** (2020), “A Carbon-enhanced Lyman Limit System: Signature of the First Generation of Stars?,” *The Astrophysical Journal*, 901, 105.
 23. **Krogager**, J.-K., P. Møller, L. B. Christensen, P. Noterdaeme, J. P. U. Fynbo, and W. Freudling (2020), “High-redshift damped Ly α absorbing galaxy model reproducing the $N_{HI} - Z$ distribution,” *Monthly Notices of the Royal Astronomical Society*, 495, 3014.
 24. Hamanowicz, A., Péroux, C., Zwaan, M. A., Rahmani, H., Pettini, M., York, D. G., Klitsch, A., Augustin, R., **Krogager**, J.-K., Kulkarni, V., Fresco, A., Biggs, A. D., Milliard, B., & Vernet, J. D. R. (2020), “MUSE-ALMA haloes V: physical properties and environment of $z \leq 1.4$ H I quasar absorbers,” *Monthly Notices of the Royal Astronomical Society*, 492, 2347.
 25. Fynbo, J. P. U., Møller, P., Heintz, K. E., Burchett, J. N., Christensen, L., Geier, S. J., Jakobsson, P., **Krogager**, J.-K., Ledoux, C., Milvang-Jensen, B., Noterdaeme, P., Prochaska, J. X., & Tripp, T. M. (2020), “Gaia-assisted discovery of a detached low-ionisation BAL quasar with very large ejection velocities,” *Astronomy & Astrophysics*, 634, A111.
 26. Stockmann, M., Toft, S., Gallazzi, A., Zibetti, S., Conselice, C. J., Margalef-Bentabol, B., Zabl, J., Jørgensen, I., Magdis, G. E., Gómez-Guijarro, C., Valentino, F. M., Brammer, G. B., Ceverino, D., Cortzen, I., Davidzon, I., Demarco, R., Faisst, A., Hirschmann, M., **Krogager**, J.-K., Lagos, C. D., Man, A. W. S., Mundy, C. J., Peng, Y., Selsing, J., Steinhardt, C. L., & Whitaker, K. E. (2020), “X-shooter Spectroscopy and HST Imaging of 15 Massive Quiescent Galaxies at $z \gtrsim 2$,” *The Astrophysical Journal*, 888, 4.
 27. Ranjan, A., Noterdaeme, P., **Krogager**, J.-K., Petitjean, P., Srianand, R., Balashev, S. A., Gupta, N., & Ledoux, C. (2020), “Chemical enrichment and host galaxies of extremely strong intervening DLAs towards quasars. Do they probe the same galactic environments as DLAs associated with γ -ray burst afterglows?,” *Astronomy & Astrophysics*, 633, A125.
 28. Balashev, S. A., Klimenko, V. V., Noterdaeme, P., **Krogager**, J.-K., Varshalovich, D. A., Ivanchik, A. V., Petitjean, P., Srianand, R., & Ledoux, C. (2019), “X-shooter observations of strong H₂-bearing DLAs at high redshift,” *Monthly Notices of the Royal Astronomical Society*, 490, 2668.
 29. Heintz, K. E., Bolmer, J., Ledoux, C., Noterdaeme, P., **Krogager**, J.-K., Fynbo, J. P. U., Jakobsson, P., Covino, S., D’Elia, V., De Pasquale, M., Hartmann, D. H., Izzo, L., Japelj, J., Kann, D. A., Kaper, L., Petitjean, P., Rossi, A., Salvaterra, R., Schady, P., Selsing, J., Starling, R., Tanvir, N. R., Thöne, C. C., de Ugarte Postigo, A., Vergani, S. D., Watson, D., Wiersema, K., & Zafar, T. (2019),

- “New constraints on the physical conditions in H₂-bearing GRB-host damped Lyman- α absorbers,” *Astronomy & Astrophysics*, 629, A131.
30. **Krogager**, J.-K., Fynbo, J. P. U., Møller, P., Noterdaeme, P., Heintz, K. E., & Pettini, M. (2019),
 “The effect of dust bias on the census of neutral gas and metals in the high-redshift Universe due to SDSS-II quasar colour selection,” *Monthly Notices of the Royal Astronomical Society*, 486, 4377.
 31. Noterdaeme, P., Balashev, S., **Krogager**, J.-K., Srianand, R., Fathivavsari, H., Petitjean, P., & Ledoux, C. (2019),
 “Proximate molecular quasar absorbers. Excess of damped H₂ systems at $z_{\text{abs}} \approx z_{\text{QSO}}$ in SDSS DR14,” *Astronomy & Astrophysics*, 627, A32.
 32. Geier, S. J., Heintz, K. E., Fynbo, J. P. U., Ledoux, C., Christensen, L., Jakobsson, P., **Krogager**, J.-K., Milvang-Jensen, B., Møller, P., & Noterdaeme, P. (2019),
 “Gaia-assisted selection of a quasar reddened by dust in an extremely strong damped Lyman- α absorber at $z = 2.226$,” *Astronomy & Astrophysics*, 625, L9.
 33. Schindler, J.-T., Fan, X., McGreer, I. D., Yang, J., Wang, F., Green, R., Fynbo, J. P. U., **Krogager**, J.-K., Green, E. M., Huang, Y.-H., Kadowaki, J., Patej, A., Wu, Y.-L., & Yue, M. (2019),
 “The Extremely Luminous Quasar Survey in the Sloan Digital Sky Survey Footprint. III. The South Galactic Cap Sample and the Quasar Luminosity Function at Cosmic Noon,” *The Astrophysical Journal*, 871, 258.
 34. Heintz, K. E., Ledoux, C., Fynbo, J. P. U., Jakobsson, P., Noterdaeme, P., **Krogager**, J.-K., Bolmer, J., Møller, P., Vergani, S. D., Watson, D., Zafar, T., De Cia, A., Tanvir, N. R., Malesani, D. B., Japelj, J., Covino, S., & Kaper, L. (2019),
 “Cold gas in the early Universe. Survey for neutral atomic-carbon in GRB host galaxies at $1 < z < 6$ from optical afterglow spectroscopy,” *Astronomy & Astrophysics*, 621, A20.
 35. Rahmani, H., Péroux, C., Schroetter, I., Augustin, R., Bouché, N., **Krogager**, J.-K., Kulkarni, V. P., Milliard, B., Møller, P., Pettini, M., Vernet, J., & York, D. G. (2018),
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 36. **Krogager**, J.-K., Noterdaeme, P., O’Meara, J. M., Fumagalli, M., Fynbo, J. P. U., Prochaska, J. X., Hennawi, J., Balashev, S., Courbin, F., Rafelski, M., Smette, A., & Boissé, P. (2018),
 “Dissecting cold gas in a high-redshift galaxy using a lensed background quasar,” *Astronomy & Astrophysics*, 619, A142.
 37. Ranjan, A., Noterdaeme, P., **Krogager**, J.-K., Petitjean, P., Balashev, S. A., Bialy, S., Srianand, R., Gupta, N., Fynbo, J. P. U., Ledoux, C., & Laursen, P. (2018),
 “Molecular gas and star formation in an absorption-selected galaxy: Hitting the bull’s eye at $z = 2.46$,” *Astronomy & Astrophysics*, 618, A184.
 38. Heintz, K. E., Watson, D., Jakobsson, P., Fynbo, J. P. U., Bolmer, J., Arabsalmani, M., Cano, Z., Covino, S., D’Elia, V., Gomboc, A., Japelj, J., Kaper, L., **Krogager**, J.-K., Pugliese, G., Sánchez-Ramírez, R., Selsing, J., Sparre, M., Tanvir, N. R., Thöne, C. C., de Ugarte Postigo, A., & Vergani, S. D. (2018),
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 39. Zou, S., Petitjean, P., Noterdaeme, P., Ledoux, C., **Krogager**, J.-K., Fathivavsari, H., Srianand, R., & López, S. (2018),
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40. Heintz, K. E., Fynbo, J. P. U., Høg, E., Møller, P., **Krogager**, J.-K., Geier, S., Jakobsson, P., & Christensen, L. (2018),
“Unidentified quasars among stationary objects from Gaia DR2,” *Astronomy & Astrophysics*, 615, L8.
41. Heintz, K. E., Fynbo, J. P. U., Ledoux, C., Jakobsson, P., Møller, P., Christensen, L., Geier, S., **Krogager**, J.-K., & Noterdaeme, P. (2018),
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42. **Krogager**, J.-K., Gupta, N., Noterdaeme, P., Ranjan, A., Fynbo, J. P. U., Srianand, R., Petitjean, P., Combes, F., & Mahabal, A. (2018),
“MALS-NOT: Identifying Radio-bright Quasars for the MeerKAT Absorption Line Survey,” *The Astrophysical Journal Supplement Series*, 235, 10.
43. Fynbo, J. P. U., **Krogager**, J.-K., Heintz, K. E., Geier, S., Møller, P., Noterdaeme, P., Christensen, L., Ledoux, C., & Jakobsson, P. (2017),
“The High A V Quasar Survey: A $z = 2.027$ metal-rich damped Lyman- α absorber towards a red quasar at $z = 3.21$,” *Astronomy & Astrophysics*, 606, A13.
44. **Krogager**, J.-K., Møller, P., Fynbo, J. P. U., & Noterdaeme, P. (2017),
“Consensus report on 25 yr of searches for damped Ly α galaxies in emission: confirming their metallicity-luminosity relation at $z \gtrsim 2$,” *Monthly Notices of the Royal Astronomical Society*, 469, 2959.
45. Dutta, R., Srianand, R., Gupta, N., Joshi, R., Petitjean, P., Noterdaeme, P., Ge, J., & **Krogager**, J.-K. (2017),
“Incidence of H I 21-cm absorption in strong Fe II systems at $0.5 < z < 1.5$,” *Monthly Notices of the Royal Astronomical Society*, 465, 4249.
46. Noterdaeme, P., **Krogager**, J.-K., Balashev, S., Ge, J., Gupta, N., Krühler, T., Ledoux, C., Murphy, M. T., Pâris, I., Petitjean, P., Rahmani, H., Srianand, R., & Ubachs, W. (2017),
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47. **Krogager**, J.-K., Fynbo, J. P. U., Heintz, K. E., Geier, S., Ledoux, C., Møller, P., Noterdaeme, P., Venemans, B. P., & Vestergaard, M. (2016),
“The Extended High A(V) Quasar Survey: Searching for Dusty Absorbers toward Mid-infrared-selected Quasars,” *The Astrophysical Journal*, 832, 49.
48. Heintz, K. E., Fynbo, J. P. U., Møller, P., Milvang-Jensen, B., Zabl, J., Maddox, N., **Krogager**, J.-K., Geier, S., Vestergaard, M., Noterdaeme, P., & Ledoux, C. (2016),
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49. Heintz, K. E., Fynbo, J. P. U., **Krogager**, J.-K., Vestergaard, M., Møller, P., Arabsalmani, M., Geier, S., Noterdaeme, P., Ledoux, C., Saturni, F. G., & Venemans, B. (2016),
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50. **Krogager**, J.-K., Fynbo, J. P. U., Noterdaeme, P., Zafar, T., Møller, P., Ledoux, C., Krühler, T., & Stockton, A. (2016),
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52. Zafar, T., Møller, P., Watson, D., Fynbo, J. P. U., [Krogager](#), J.-K., Zafar, N., Saturni, F. G., Geier, S., & Venemans, B. P. (2015),
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 58. [Krogager](#), J.-K., Fynbo, J. P. U., Ledoux, C., Christensen, L., Gallazzi, A., Laursen, P., Møller, P., Noterdaeme, P., Péroux, C., Pettini, M., & Vestergaard, M. (2013),
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