

Jan Bolmer - List of Publications

March 17, 2019

Current h-index: **11** (source: [ADS](#))

Current citation count: **619** (source: [ADS](#))

A) PAPERS

First Author – *A&A* (2):

- 1) J. Bolmer, C. Ledoux, P. Wiseman, A. De Cia, J. Selsing, P. Schady, J. Greiner, S. Savaglio, J. M. Burgess, V. D’Elia, J. P. U. Fynbo, P. Goldoni, D. H. Hartmann, K. E. Heintz, P. Jakobsson, J. Japelj, L. Kaper, N. R. Tanvir, P. M. Vreeswijk, and T. Zafar, “Evidence for diffuse molecular gas and dust in the hearts of gamma-ray burst host galaxies. Unveiling the nature of high-redshift damped Lyman- α systems,” *A&A*, vol. 623, p. A43, Mar 2019
- 2) J. Bolmer, J. Greiner, T. Krühler, P. Schady, C. Ledoux, N. R. Tanvir, and A. J. Levan, “Dust reddening and extinction curves toward gamma-ray bursts at $z > 4$,” *A&A*, vol. 609, p. A62, Jan 2018

2nd & 3rd Author – *A&A* (3):

- 1) A. de Ugarte Postigo, C. C. Thöne, J. Bolmer, S. Schulze, S. Martín, D. A. Kann, V. D’Elia, J. Selsing, A. Martin-Carrillo, D. A. Perley, S. Kim, L. Izzo, R. Sánchez-Ramírez, C. Guidorzi, A. Klotz, *et al.*
- 2) J. Greiner, J. Bolmer, M. Wieringa, A. J. van der Horst, D. Petry, S. Schulze, F. Knust, G. de Bruyn, T. Krühler, P. Wiseman, S. Klose, C. Delvaux, J. F. Graham, D. A. Kann, A. Moin, A. Nicuesa-Guelbenzu, P. Schady, S. Schmidl, T. Schweyer, M. Tanga, S. Tingay, H. van Eerten, and K. Varela, “Large-amplitude late-time radio variability in GRB 151027B,” *A&A*, vol. 614, p. A29, Jun 2018
- 3) P. Wiseman, P. Schady, J. Bolmer, T. Krühler, R. M. Yates, J. Greiner, and J. P. U. Fynbo, “Evolution of the dust-to-metals ratio in high-redshift galaxies probed by GRB-DLAs,” *A&A*, vol. 599, p. A24, Mar 2017

Other – *Nature* (2), *ApJ* (4), *MNRAS* (4), *A&A* (10):

- 1) J. Selsing, D. Malesani, P. Goldoni, J. P. U. Fynbo, T. Krühler, L. A. Antonelli, M. Arabsalmani, J. Bolmer, Z. Cano, L. Christensen, S. Covino, P. D’Avanzo, V. D’Elia, A. De Cia, A. de Ugarte Postigo, H. Flores, *et al.*, “The X-shooter GRB afterglow legacy sample (XS-GRB),” *A&A*, vol. 623, p. A92, Mar 2019
- 2) L. Izzo, A. de Ugarte Postigo, K. Maeda, C. C. Thöne, D. A. Kann, M. Della Valle, A. Sagues Carracedo, M. J. Michalowski, P. Schady, S. Schmidl, J. Selsing, R. L. C. Starling, A. Suzuki, K. Bensch, J. Bolmer, S. Campana, *et al.*, “Signatures of a jet cocoon in early spectra of a supernova associated with a γ -ray burst,” *Nature*, vol. 565, pp. 324–327, Jan 2019
- 3) K. E. Heintz, C. Ledoux, J. P. U. Fynbo, P. Jakobsson, P. Noterdaeme, J. K. Krogager, J. Bolmer, P. Møller, S. D. Vergani, D. Watson, T. Zafar, A. De Cia, N. R. Tanvir, D. B. Malesani, J. Japelj, S. Covino, and L. Kaper, “Cold gas in the early Universe. Survey for neutral atomic-carbon in GRB host galaxies at $1 < z < 6$ from optical afterglow spectroscopy,” *A&A*, vol. 621, p. A20, Jan 2019
- 4) K. E. Heintz, D. Watson, P. Jakobsson, J. P. U. Fynbo, J. Bolmer, M. Arabsalmani, Z. Cano, S. Covino, V. D’Elia, A. Gomboc, J. Japelj, L. Kaper, J. K. Krogager, G. Pugliese, R. Sánchez-Ramírez, J. Selsing, M. Sparre, N. R. Tanvir, C. C. Thöne, A. de Ugarte Postigo, and S. D. Vergani, “Highly ionized metals as probes of the circumburst gas in the natal regions of gamma-ray bursts,” *MNRAS*, vol. 479, pp. 3456–3476, Sep 2018
- 5) T. Zafar, D. Watson, P. Møller, J. Selsing, J. P. U. Fynbo, P. Schady, K. Wiersema, A. J. Levan, K. E. Heintz, A. de Ugarte Postigo, V. D’Elia, P. Jakobsson, J. Bolmer, J. Japelj, S. Covino, A. Gomboc, and Z. Cano, “VLT/X-shooter GRBs: Individual extinction curves of star-forming regions,” *MNRAS*, vol. 479, pp. 1542–1554, Sep 2018
- 6) J. Selsing, T. Krühler, D. Malesani, P. D’Avanzo, S. Schulze, S. D. Vergani, J. Palmerio, J. Japelj, B. Milvang-Jensen, D. Watson, P. Jakobsson, J. Bolmer, Z. Cano, *et al.*, “The host galaxy of the short GRB 111117A at $z = 2.211$. Impact on the short GRB redshift distribution and progenitor channels,” *A&A*, vol. 616, p. A48, Aug 2018
- 7) T. Zafar, K. E. Heintz, J. P. U. Fynbo, D. Malesani, J. Bolmer, C. Ledoux, M. Arabsalmani, L. Kaper, S. Campana, R. L. C. Starling, J. Selsing, D. A. Kann, A. de Ugarte Postigo, *et al.*, “The 2175 Å Extinction Feature in the Optical Afterglow Spectrum of GRB 180325A at $z = 2.25$,” *ApJ*, vol. 860, p. L21, Jun 2018
- 8) Z. Kostrzewa-Rutkowska, S. Kozłowski, C. Lemon, T. Anguita, J. Greiner, M. W. Auger, Ł. Wyrzykowski, Y. Apostolovski, J. Bolmer, A. Udalski, M. K. Szymański, I. Soszyński, R. Poleski, P. Pietrukowicz, J. Skowron, P. Mróz, K. Ulaczyk, and M. Pawlak, “A gravitationally lensed quasar discovered in OGLE,” *MNRAS*, vol. 476, pp. 663–672, May 2018
- 9) A. Melandri, S. Covino, E. Zaninoni, S. Campana, J. Bolmer, B. E. Cobb, J. Gorosabel, J. W. Kim, P. Kuin, D. Kuroda, D. Malesani, C. G. Mundell, F. Nappo, B. Sbarufatti, R. J. Smith, *et al.*, “Colour variations in the GRB 120327A afterglow,” *A&A*, vol. 607, p. A29, Oct 2017
- 10) T. W. Chen, M. Nicholl, S. J. Smartt, P. A. Mazzali, R. M. Yates, T. J. Moriya, C. Inserra, N. Langer, T. Krühler, Y. C. Pan, R. Kotak, L. Galbany, P. Schady, P. Wiseman, J. Greiner, S. Schulze, A. W. S. Man, A. Jerkstrand, K. W. Smith, M. Dennefeld, C. Baltay, J. Bolmer, E. Kankare, F. Knust, K. Maguire, D. Rabinowitz, S. Rostami, M. Sullivan, and D. R. Young, “The evolution of superluminous supernova LSQ14mo and its interacting host galaxy system,” *A&A*, vol. 602, p. A9, Jun 2017
- 11) Ł. Wyrzykowski, M. Zieliński, Z. Kostrzewa-Rutkowska, A. Hamañowicz, P. G. Jonker, I. Arcavi, J. Guillochon, P. J. Brown, S. Kozłowski, A. Udalski, M. K. Szymański, I. Soszyński, R. Poleski, P. Pietrukowicz, J. Skowron, P. Mróz, K. Ulaczyk, M. Pawlak, K. A. Rybicki, J. Greiner, T. Krühler, J. Bolmer, S. J. Smartt, K. Maguire, and K. Smith, “OGLE16aaa - a signature of a hungry supermassive black hole,” *MNRAS*, vol. 465, pp. L114–L118, Feb 2017
- 12) A. Kaur, A. Rau, M. Ajello, J. Greiner, D. H. Hartmann, V. S. Paliya, A. Domínguez, J. Bolmer, and P. Schady, “New High- z Fermi BL Lacs with the Photometric Dropout Technique,” *ApJ*, vol. 834, p. 41, Jan 2017
- 13) K. Varela, H. van Eerten, J. Greiner, P. Schady, J. Elliott, V. Sudilovsky, T. Krühler, A. J. van der Horst, J. Bolmer, F. Knust, C. Agurto, F. Azagra, A. Belloche, F. Bertoldi, C. De Breuck, C. Delvaux, R. Filgas, J. F. Graham, D. A. Kann, S. Klose, K. M. Menten, A. Nicuesa Guelbenzu, A. Rau, A. Rossi, S. Schmidl, F. Schuller, T. Schweyer, M. Tanga, A. Weiss, P. Wiseman, and F. Wyrowski, “Microphysics and dynamics of the gamma-ray burst 121024A,” *A&A*, vol. 589, p. A37, May 2016
- 14) T. Krühler, D. Malesani, J. P. U. Fynbo, O. E. Hartoog, J. Hjorth, P. Jakobsson, D. A. Perley, A. Rossi, P. Schady, S. Schulze, N. R. Tanvir, S. D. Vergani, K. Wiersema, P. M. J. Afonso, J. Bolmer, Z. Cano, S. Covino, V. D’Elia, A. de Ugarte Postigo, R. Filgas, *et al.*, “GRB hosts through cosmic time. VLT/X-Shooter emission-line spectroscopy of 96 γ -ray-burst-selected galaxies at $0.1 < z < 3.6$,” *A&A*, vol. 581, p. A125, Sep 2015
- 15) J. Greiner, D. B. Fox, P. Schady, T. Krühler, M. Trenti, A. Cikota, J. Bolmer, J. Elliott, C. Delvaux, R. Perna, P. Afonso, D. A. Kann, S. Klose, S. Savaglio, S. Schmidl, T. Schweyer, M. Tanga, and K. Varela, “Gamma-Ray Bursts Trace UV Metrics of Star Formation over $3 < z < 5$,” *ApJ*, vol. 809, p. 76, Aug 2015
- 16) J. Greiner, P. A. Mazzali, D. A. Kann, T. Krühler, E. Pian, S. Prentice, F. Olivares E., A. Rossi, S. Klose, S. Taubenberger, F. Knust, P. M. J. Afonso, C. Ashall, J. Bolmer, C. Delvaux, R. Diehl, J. Elliott, R. Filgas, J. P. U. Fynbo, J. F. Graham, A. N. Guelbenzu, S. Kobayashi, G. Leloudas, S. Savaglio, P. Schady, S. Schmidl, T. Schweyer, V. Sudilovsky, M. Tanga, A. C. Updike, H. van Eerten, and K. Varela, “A very luminous magnetar-powered supernova associated with an ultra-long γ -ray burst,” *Nature*, vol. 523, pp. 189–192, Jul 2015
- 17) P. Schady, T. Krühler, J. Greiner, J. F. Graham, D. A. Kann, J. Bolmer, C. Delvaux, J. Elliott, S. Klose, F. Knust, A. Nicuesa Guelbenzu, A. Rau, A. Rossi, S. Savaglio, S. Schmidl, T. Schweyer, V. Sudilovsky, M. Tanga, N. R. Tanvir, K. Varela, and P. Wiseman, “Super-solar metallicity at the position of the ultra-long GRB 130925A,” *A&A*, vol. 579, p. A126, Jul 2015
- 18) J. P. U. Fynbo, T. Krühler, K. Leighly, C. Ledoux, P. M. Vreeswijk, S. Schulze, P. Noterdaeme, D. Watson, R. A. M. J. Wijers, J. Bolmer, Z. Cano, L. Christensen, S. Covino, V. D’Elia, H. Flores, M. Friis, P. Goldoni, J. Greiner, F. Hammer, J. Hjorth, P. Jakobsson, J. Japelj, L. Kaper, S. Klose, F. Knust, *et al.*, “The mysterious optical afterglow spectrum of GRB 140506A at $z = 0.889$,” *A&A*, vol. 572, p. A12, Dec 2014
- 19) J. Greiner, H. F. Yu, T. Krühler, D. D. Frederiks, A. Beloborodov, P. N. Bhat, J. Bolmer, H. van Eerten, R. L. Apteekar, J. Elliott, S. V. Golenetskii,

- J. F. Graham, K. Hurley, D. A. Kann, S. Klose, A. Nicuesa Guelbenzu, A. Rau, P. Schady, S. Schmidl, V. Sudilovsky, D. S. Svinikin, M. Tanga, M. V. Ulanov, K. Varela, A. von Kienlin, and X. L. Zhang, “**GROND coverage of the main peak of gamma-ray burst 130925A.**” *A&A*, vol. 568, p. A75, Aug 2014
- 20) M. Ajello, R. W. Romani, D. Gasparri, M. S. Shaw, **J. Bolmer**, G. Cotter, J. Finke, J. Greiner, S. E. Healey, O. King, W. Max-Moerbeck, P. F. Michelson, W. J. Potter, A. Rau, A. C. S. Readhead, J. L. Richards, and P. Schady, “**The Cosmic Evolution of Fermi BL Lacertae Objects.**” *ApJ*, vol. 780, p. 73, Jan 2014
- B) ATEL
- 1) T. W. Chen, P. Schady, T. Kruehler, P. Wiseman, T. Schweyer, R. M. Yates, **J. Bolmer**, S. J. Smartt, *et al.*, “**Observations of ATLAS17gzd/AT2017esf with GREAT (GROND-Epessto-Atlas).**” *The Astronomer’s Telegram*, vol. 10510, p. 1, Jun 2017
- 2) J. Greiner, **J. Bolmer**, P. Gandhi, D. Altamirano, P. A. Charles, J. M. Court, D. A. Kann, and D. J. Walton, “**GROND optical/NIR and Swift/XRT observation of IGR J17091-3624.**” *The Astronomer’s Telegram*, vol. 8795, p. 1, Mar 2016
- 3) A. Kaur, **J. Bolmer**, J. Greiner, A. Rau, P. Schady, M. Ajello, and D. H. Hartmann, “**Ultraviolet, Optical and near-infrared photometric follow up of the transient source Fermi J1654-1055 with GROND and Swift-UVOT.**” *The Astronomer’s Telegram*, vol. 8743, p. 1, Feb 2016
- C) GCN
- 1) S. Piranomonte, R. Carini, P. D’Avanzo, D. Malesani, **J. Bolmer**, A. Melandri, T. W. Chen, M. Nicholl, S. C. Williams, S. Benetti, *et al.*, “**GRB 190129B: ePESSTO NTT optical observations.**” *GCN*, vol. 23818, p. 1, Jan 2019
- 2) **J. Bolmer** and H. Steinle, “**GRB 190129B: GROND possible host candidate.**” *GCN*, vol. 23814, p. 1, Jan 2019
- 3) D. A. Kann, C. C. Thoene, J. Selsing, L. Izzo, A. de Ugarte Postigo, G. Pugliese, B. Sbarufatti, K. E. Heintz, V. D’Elia, S. Covino, K. Wiersema, D. A. Perley, S. Vergani, J. P. U. Fynbo, D. Watson, N. R. Tanvir, D. Hartmann, D. Xu, S. Schulze, and **J. Bolmer**, “**GRB 190114C: X-shooter observations of a highly extinguished afterglow.**” *GCN*, vol. 23710, p. 1, Jan 2019
- 4) **J. Bolmer** and P. Schady, “**GRB 190114C: GROND detection of the afterglow.**” *GCN*, vol. 23702, p. 1, Jan 2019
- 5) **J. Bolmer** and P. Schady, “**GRB 190114A: GROND detection of the afterglow.**” *GCN*, vol. 23682, p. 1, Jan 2019
- 6) P. Schady and **J. Bolmer**, “**GRB 181203A: GROND detection of the afterglow.**” *GCN*, vol. 23516, p. 1, Jan 2018
- 7) **J. Bolmer** and P. Schady, “**GRB 181201A: Continued GROND observations show that afterglow is still bright.**” *GCN*, vol. 23504, p. 1, Jan 2018
- 8) **J. Bolmer** and P. Schady, “**GRB 181201A: GROND detection of the afterglow and redshift upper limit of $z < 3$.**” *GCN*, vol. 23486, p. 1, Jan 2018
- 9) **J. Bolmer** and P. Schady, “**GROND observations of GRB181110A.**” *GCN*, vol. 23422, p. 1, Jan 2018
- 10) P. Schady and **J. Bolmer**, “**GRB 181022A: GROND upper limits.**” *GCN*, vol. 23371, p. 1, Jan 2018
- 11) P. Schady and **J. Bolmer**, “**GROND afterglow detection of GRB 181010A.**” *GCN*, vol. 23326, p. 1, Jan 2018
- 12) P. D’Avanzo, **J. Bolmer**, V. D’Elia, J. P. U. Fynbo, *et al.*, “**GRB 180325A: VLT/X-shooter spectroscopic observations.**” *GCN*, vol. 22555, p. 1, Jan 2018
- 13) B. Sbarufatti, **J. Bolmer**, A. de Ugarte Postigo, *et al.*, “**GRB 180314A: VLT/X-shooter redshift.**” *GCN*, vol. 22484, p. 1, Jan 2018
- 14) **J. Bolmer**, “**GRB180314A: GROND detection of the afterglow.**” *GCN*, vol. 22479, p. 1, Jan 2018
- 15) **J. Bolmer** and D. A. Kann, “**GRB 180205A: Further GROND Observations reveal Afterglow is still bright.**” *GCN*, vol. 22391, p. 1, Jan 2018
- 16) N. R. Tanvir, K. E. Heintz, J. Selsing, J. Japelj, **J. Bolmer**, D. A. Kann, D. Xu, A. de Ugarte Postigo, D. Malesani, J. P. U. Fynbo, and G. Pugliese, “**GRB 180205A: VLT/X-shooter redshift.**” *GCN*, vol. 22384, p. 1, Jan 2018
- 17) **J. Bolmer** and D. A. Kann, “**GRB 180205A: GROND detection of the NIR/optical afterglow.**” *GCN*, vol. 22383, p. 1, Jan 2018
- 18) **J. Bolmer**, H. Steinle, and P. Schady, “**GRB 170428A: GROND detection of the afterglow.**” *GCN*, vol. 21050, p. 1, Jan 2017
- 19) P. Schady, P. Wiseman, and **J. Bolmer**, “**GRB 170306A: GROND observations.**” *GCN*, vol. 20822, p. 1, Jan 2017
- 20) T. W. Chen, S. Klose, A. N. Guelbenzu, **J. Bolmer**, T. Kruehler, and J. Greiner, “**GRB 161001A: GROND afterglow candidate.**” *GCN*, vol. 19975, p. 1, Jan 2016
- 21) T. Kruehler, D. Xu, **J. Bolmer**, K. Wiersema, D. Malesani, R. Sanchez-Ramirez, and J. P. U. Fynbo, “**GRB 161001A: X-shooter spectroscopy, candidate host galaxy and redshift.**” *GCN*, vol. 19971, p. 1, Jan 2016
- 22) P. Wiseman, **J. Bolmer**, and J. Greiner, “**GRB 160927A: GROND Observations.**” *GCN*, vol. 19959, p. 1, Jan 2016
- 23) **J. Bolmer** and J. Greiner, “**GRB 160804A: GROND observations.**” *GCN*, vol. 19774, p. 1, Jan 2016
- 24) D. A. Kann, T. Kruehler, S. Schmidl, **J. Bolmer**, and J. Greiner, “**GRB 160630A: GROND Afterglow Detection.**” *GCN*, vol. 19625, p. 1, Jan 2016
- 25) T. Schweyer, **J. Bolmer**, J. Greiner, and D. A. Kann, “**GRB 160422A: GROND NIR afterglow detection.**” *GCN*, vol. 19352, p. 1, Jan 2016
- 26) **J. Bolmer**, T. Schweyer, and J. Greiner, “**GRB 160412A: GROND upper limits.**” *GCN*, vol. 19314, p. 1, Jan 2016
- 27) T. Schweyer, **J. Bolmer**, and J. Greiner, “**GRB 160314A: GROND optical/NIR observations.**” *GCN*, vol. 19200, p. 1, Jan 2016
- 28) T. Kruehler, D. Malesani, D. Xu, **J. Bolmer**, *et al.*, “**GRB 160228A: GROND afterglow confirmation and X-shooter host candidate redshift.**” *GCN*, vol. 19186, p. 1, Jan 2016
- 29) **J. Bolmer**, J. Greiner, and D. A. Kann, “**GRB160303A: further GROND observations.**” *GCN*, vol. 19150, p. 1, Jan 2016
- 30) J. Graham, **J. Bolmer**, P. Wiseman, and J. Greiner, “**GRB 160303A: GROND Optical Detection.**” *GCN*, vol. 19144, p. 1, Jan 2016
- 31) **J. Bolmer**, T. Kruehler, and J. Greiner, “**GRB 160223A: GROND optical/NIR afterglow.**” *GCN*, vol. 19058, p. 1, Jan 2016
- 32) **J. Bolmer**, T. Kruehler, and J. Greiner, “**GRB 160221A: GROND upper limits.**” *GCN*, vol. 19054, p. 1, Jan 2016
- 33) P. Wiseman, **J. Bolmer**, and J. Greiner, “**GRB 160220B: Further GROND Observations.**” *GCN*, vol. 19052, p. 1, Jan 2016
- 34) T. Kruehler, D. A. Kann, J. Greiner, and **J. Bolmer**, “**GRB 160203A: GROND Afterglow Candidate.**” *GCN*, vol. 18980, p. 1, Jan 2016
- 35) F. Knust, **J. Bolmer**, J. Greiner, and D. A. Kann, “**GRB 160131A: GROND Detection of the Optical/NIR Afterglow.**” *GCN*, vol. 18967, p. 1, Jan 2016
- 36) **J. Bolmer**, F. Knust, and J. Greiner, “**GRB 151114A: GROND Detection of the Optical/NIR Afterglow Candidate.**” *GCN*, vol. 18607, p. 1, Jan 2015
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- 38) **J. Bolmer**, J. Graham, F. Knust, and J. Greiner, “**GRB 151111A: GROND confirmation of the afterglow and photometric redshift estimate.**” *GCN*, vol. 18598, p. 1, Jan 2015
- 39) F. Knust, **J. Bolmer**, T. Kruehler, S. Schmidl, and J. Greiner, “**GRB 151029A: GROND afterglow observations.**” *GCN*, vol. 18523, p. 1, Jan 2015
- 40) R. Yates, **J. Bolmer**, and J. Greiner, “**GRB 150915A: GROND detection of an optical counterpart candidate.**” *GCN*, vol. 18317, p. 1, Jan 2015
- 41) F. Knust, T. Schweyer, **J. Bolmer**, and J. Greiner, “**GRB 150201A: GROND upper limits.**” *GCN*, vol. 17372, p. 1, Jan 2015
- 42) J. Graham, A. Nicuesa Guelbenzu, **J. Bolmer**, and J. Greiner, “**GRB 140930B: GROND observations.**” *GCN*, vol. 16872, p. 1, Jan 2014
- 43) S. Schmidl, **J. Bolmer**, and J. Greiner, “**GRB 140919A: GROND afterglow candidate.**” *GCN*, vol. 16836, p. 1, Jan 2014
- 44) **J. Bolmer**, F. Knust, S. Schmidl, and J. Greiner, “**GRB 140716A: GROND confirmation of the afterglow.**” *GCN*, vol. 16614, p. 1, Jan 2014
- 45) **J. Bolmer**, “**GRB 140719A: GROND Afterglow candidate.**” *GCN*, vol. 16611, p. 1, Jan 2014
- 46) F. Knust, **J. Bolmer**, S. Schmidl, and J. Greiner, “**GRB 140716A: GROND afterglow candidate.**” *GCN*, vol. 16601, p. 1, Jan 2014