

Refereed Publications 2023

1. Arulanantham, N., Gronke, M., Fiorellino, E., Gameiro, J. F., Frasca, A., Green, J., Chang, S.-J., Claes, R. A. B., Espaillat, C. C., France, K., Herczeg, G. J., Manara, C. F., Venuti, L., Ábrahám, Péter, A., Richard, B., Jerome, Campbell-White, J., **Eislöffel, J.**, Fischer, W. J., Kóspál, Ágnes, Vioque, M. “Ly α Scattering Models Trace Accretion and Outflow Kinematics in T Tauri Systems.” *ApJ*, 944, 185 (2023)
2. Bayandina, O. S., Burns, R. A., Kurtz, S. E., Moscadelli, L., Sobolev, A. M., **Stecklum, B.**, and Valttis, I. E. “Nature of continuum emission in the source of the water maser super-flare G25.65+1.04.” *A&A* 673: A60 (2023)
3. Best, P. N., Kondapally, R., Williams, W. L., Cochrane, R. K., Duncan, K. J., Hale, C. L., Haskell, P., Malek, K., McCheyne, I., Smith, D. J. B., Wang, L., Botteon, A., Bonato, M., Bondi, M., Calistro Rivera, G., Gao, F., **Gürkan, G.**, Hardcastle, M. J., Jarvis, M. J., Mingo, B., Miraghaei, H., Morabito, L. K., Nisbet, D., Prandoni, I., Röttgering, H. J. A., Sabater, J., Shimwell, T., Tasse, C., and van Weeren, R. “The LOFAR Two-metre Sky Survey: Deep Fields data release 1. V. Survey description, source classifications, and host galaxy properties.” *MNRAS* 523, 1729 (2023).
4. Blanco-Pozo, J., Perger, M., Damasso, M., Anglada Escudé, G., Ribas, I., Baroch, D., Caballero, J. A., Cifuentes, C., Jeffers, S. V., Lafarga, M., Kaminski, A., Kaur, S., Nagel, E., Perdelwitz, V., Pérez-Torres, M., Sozzetti, A., Viganò, D., Amado, P. J., Andreuzzi, G., Béjar, V. J. S., Brown, E. L., Del Sordo, F., Dreizler, S., Galadí-Enríquez, D., **Hatzes, A. P.**, Kürster, M., Lanza, A. F., Melis, A., Molinari, E., Montes, D., Murgia, M., Pallé, E., Peña-Moñino, L., Perrodin, D., Pilia, M., Poretti, E., Quirrenbach, A., Reiners, A., Schweitzer, A., Zapatero Osorio, M. R., and Zechmeister, M. “The CARMENES search for exoplanets around M dwarfs. A long-period planet around GJ 1151 measured with CARMENES and HARPS-N data.” *A&A* 671: A50 (2023)
5. Böckmann, K., Brüggén, M., Heesen, V., **Basu, A.**, O’Sullivan, S. P., Heywood, I., Jarvis, M., Scaife, A., Stil, J., Taylor, R., Adams, N. J., Bowler, R. A. A., and Tudorache, M. N. “Probing magnetic fields in the circumgalactic medium using polarization data from MIGHTEE.” *A&A* 678: A56 (2023)
6. Böckmann, K., Brüggén, M., Heesen, V., **Basu, A.**, O’Sullivan, S. P., Heywood, I., Jarvis, M., Scaife, A., Stil, J., Taylor, R., Adams, N. J., Bowler, R. A. A., and Tudorache, M. N. “Probing magnetic fields in the circumgalactic medium using polarization data from MIGHTEE.” *A&A* 678, A56 (2023)
7. Böckmann, K., Brüggén, M., Koribalski, B., Veronica, A., Reiprich, T. H., Bulbul, E., Bahar, Y. E., Balzer, F., Comparat, J., Garrel, C., Ghirardini, V., **Gürkan, G.**, Kluge, M., Leahy, D., Merloni, A., Liu, A., Ramos-Ceja, M. E., Salvato, M., Sanders, J., Shabala, S., and Zhang, X. “Central radio galaxies in galaxy clusters: Joint surveys by eROSITA and ASKAP.” *A&A* 677, A188 (2023)
8. Bonfanti, A., Gandolfi, D., Egger, J. A., Fossati, L., Cabrera, J., Krenn, A., Alibert, Y., Benz, W., Billot, N., Florén, H. G., Lendl, M., Adibekyan, V., Salmon, S., Santos, N. C., Sousa, S. G., Wilson, T. G., Barragán, O., Collier Cameron, A., Delrez, L., **Esposito, M.**, **Goffo, E.**, Osborne, H., Osborn, H. P., Serrano, L. M., Van Eylen, V., Alarcon, J., Alonso, R., Anglada, G., B´arczy, T., Barrado Navascues, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Bedell, M., Bonfils, X., Borsato, L., Brandeker, A., Broeg, C., Charnoz, S., Corral Van Damme, C., Csizmadia, Sz., Cubillos, P. E., Davies, M. B., Deleuil, M., Demangeon, O. D. S., Demory, B. O., Ehrenreich, D., Erikson, A., Fortier, A., Fridlund, M., Gillon, M., Güdel, M., Hoyer, S., Isaak, K. G., Kerschbaum, F., Kiss, L. L., Laskar, J., Lecavelier des Etangs, A., Lorenzo-Oliveira, D., Lovis, C., Magrin, D., Marafatto, L., Maxted, P. F. L., Meléndez, J., Mordasini, C., Nascimbeni, V., Olofsson, G., Ottensamer, R., Pagano, I., Pallé, E., Peter,

- G., Piazza, D., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Ribas, I., Scandariato, G., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, Gy. M., Thomas, N., Udry, S., Ulmer, B., Van Grootel, V., Venturini, J., and Walton, N. A. “TOI-1055 b: Neptunian planet characterised with HARPS, TESS, and CHEOPS.” *A&A* 671: L8 (2023)
9. Bowles, M., Tang, H., **Vardoulaki, E.**, Alexander, E. L., Luo, Y., Rudnick, L., Walmsley, M., Porter, F., Scaife, A. M. M., Slijepcevic, I. V., Adams, E. A. K., **Drabent, A.**, Dugdale, T., Gükan, G., Hopkins, A. M., Jimenez-Andrade, E. F., Leahy, D. A., Norris, R. P., Rahman, S. F.-ur, Ouyang, X., Segal, G., Shabala, S. S., and Wong, O. I. “Radio galaxy zoo EMU: towards a semantic radio galaxy morphology taxonomy.” *MNRAS* 522, 2584 (2023)
 10. Burns, R. A., Uno, Y., Sakai, N., Blanchard, J., Rosli, Z., Orosz, G., Yonekura, Y., Tanabe, Y., Sugiyama, K., Hirota, T., Kim, Kee-Tae, Aberfelds, A., Volvach, A. E., Bartkiewicz, A., Caratti o Garatti, A., Sobolev, A. M., **Stecklum, B.**, Brogan, C., Phillips, C., Ladeyschikov, D. A., Johnstone, D., Surcis, G., MacLeod, G. C., Linz, H., Chibueze, J. O., Brand, J., **Eislöffel, J.**, Hyland, L., Uscanga, L., Olech, M., Durjasz, M., Bayandina, O., Breen, S., Ellingsen, S. P., van den Heever, S. P., Hunter, T. R., and Chen, X. “A Keplerian disk with a four-arm spiral birthing an episodically accreting high-mass protostar.” *Nature Astronomy* 7, 557 (2023)
 11. Cabrera, J., Gandolfi, D., Serrano, L. M., Csizmadia, Sz., Egger, J. A., Baumeister, Ph., Krenn, A., Benz, W., Deline, A., Florén, H. G., Collier Cameron, A., Adibekyan, V., Alibert, Y., Bellomo, S. E., Delrez, L., Fossati, L., Fortier, A., Grziwa, S., Hoyer, S., Bonfanti, A., Salmon, S., Sousa, S. G., Wilson, T. G., Alarcón, J., Alonso, R., Anglada Escudé, G., Bączy, T., Barragán, O., Barrado, D., Barros, S. C. C., Baumjohann, W., Beck, M., Beck, T., Bernabò, L. M., Billot, N., Bonfils, X., Borsato, L., Brandeker, A., Broeg, C., Carrió-González, O., Charnoz, S., Ciardi, D. R., Cochran, W. D., Collins, K. A., Collins, K. I., Conti, D. M., Davies, M. B., Deeg, H. J., Deleuil, M., Demangeon, O. D. S., Demory, B. O., Ehrenreich, D., Erikson, A., **Esposito, M.**, Fridlund, M., Gillon, M., **Goffo, E.**, Güdel, M., **Guenther, E.W.**, Harre, J. V., Heng, K., Hooton, M. J., Isaak, K. G., Jenkins, J. M., Kiss, L. L., Knudstrup, E., Lam, K. W. F., Laskar, J., Lecavelier des Etangs, A., Lendl, M., Lovis, C., Luque, R., Magrin, D., Maxted, P. F. L., Muresan, A., Nascimbeni, V., Olofsson, G., Osborn, H. P., Osborne, H. L. M., Ottensamer, R., Pagano, I., Pallé, E., Persson, C. M., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Redfield, S., Ribas, I., Ricker, G. R., Rodler, F., Santos, N. C., Scandariato, G., Seager, S., Ségransan, D., Simon, A. E., Smith, A. M. S., Steller, M., Szabó, Gy. M., Thomas, N., Tosi, N., Twicken, J. D., Udry, S., Van Eylen, V., Van Grootel, V., Walton, N. A., and Winn, J. N. “The planetary system around HD 190622 (TOI-1054). Measuring the gas content of low-mass planets orbiting F-stars.” *A&A* 675, A183 (2023)
 12. Callingham, J. R., Shimwell, T. W., Vedantham, H. K., Bassa, C. G., O’Sullivan, S. P., Yiu, T. W. H., Bloot, S., Best, P. N., Hardcastle, M. J., Haverkorn, M., Kavanagh, R. D., Lamy, L., Pope, B. J. S., Röttgering, H. J. A., Schwarz, D. J., Tasse, C., van Weeren, R. J., White, G. J., Zarka, P., Bomans, D. J., Bonafede, A., Bonato, M., Botteon, A., Bruggen, M., Chyzy, K. T., **Drabent, A.**, Emig, K. L., Gludemans, A. J., **Gürkan, G.**, Hajduk, M., Hoang, D. N., **Hoefl, M.**, Iacobelli, M., Kadler, M., Kunert-Bajraszewska, M., Mingo, B., Morabito, L. K., Nair, D. G., Pérez-Torres, M., Ray, T. P., Riseley, C. J., Rowlinson, A., Shulevski, A., Sweijen, F., Timmerman, R., Vaccari, M., and Zheng, J. “V-LoTSS: The circularly polarised LOFAR Two-metre Sky Survey.” *A&A* 670, A124 (2023)
 13. Caretta, C. A., **Andernach, H.**, Chow-Martínez, M., Coziol, R., De AndaSuárez, J., Hernaández-Aguayo, C., Islas-Islas, J. M., Mireles-Vidales, M. M., Muñoz-Torres, M. A., Santoyo-Ruiz, H., Trejo-Alonso, J. J., Venkatapathy, Y., and Zúñiga, J. M. “Tracing the Assembly Histories of Galaxy Clusters in the Nearby Universe.” *Rev. Mexicana Astron. Astrofis.* 59: 345–377 (2023)

14. Casey, C. M., Kartaltepe, J. S., Drakos, N. E., Franco, M., Harish, S., Paquereau, L., Ilbert, O., Rose, C., Cox, I. G., Nightingale, J. W., Robertson, B. E., Silverman, J. D., Koekemoer, A. M., Massey, R., McCracken, H. J., Rhodes, J., Akins, H. B., Allen, N., Amvrosiadis, A., Arango-Toro, R. C., Bagley, M. B., Bongiorno, A., Capak, P. L., Champagne, J. B., Chartab, Nima, Chávez, Ortiz, Ó. A., Chworowsky, K., Cooke, K. C., Cooper, O. R., Darvish, B., Ding, X., Faisst, A. L., Finkelstein, S. L., Fujimoto, Seiji, G., Fabrizio, G., Steven, G., Katriona M. L., Gozaliasl, G., Hayward, C. C., He, Q., Hemmati, S., Hirschmann, M., Jahnke, K., Jin, S., Khostovan, A. A., Kokorev, Vasily, L., Erini, L., Clotilde, L., Rebecca L., L, Gene C. K., Liu, D., Liaudat, T., Long, A. S., Magdis, Georgios, M., Guillaume, M., Vincenzo, M., Sinclaire M., Maraston, C., Martin, C. L., McCleary, J. E., McKinney, Jed, M., Conor J. R., Mobasher, B., Pattnaik, R., Renzini, A., Rich, R. M., Sanders, D. B., Sattari, Z., Scognamiglio, D., Scoville, N., Sheth, K., Shuntov, M., Sparre, M., Suzuki, T. L., Talia, M., Toft, S., Trakhtenbrot, B., Urry, C. M., Valentino, F., Vanderhoof, B. N., **Vardoulaki, E.**, Weaver, J. R., Whitaker, K. E., Wilkins, S. M., Yang, L., and Zavala, J. A. "COSMOS-Web: An Overview of the JWST Cosmic Origins Survey." *ApJ* 954, 31 (2023)
15. Cesaroni, R., Moscadelli, L., Caratti o Garatti, A., **Eisloffel, J.**, Fedriani, R., Neri, R., Ray, T., Sanna, A., and **Stecklum, B.** "Radio outburst from a massive (proto)star. II. A portrait in space and time of the expanding radio jet from S255IR NIRS 3." *A&A* 680, A110 (2023)
16. Cochrane, R. K., Kondapally, R., Best, P. N., Sabater, J., Duncan, K. J., Smith, D. J. B., Hardcastle, M. J., Röttgering, H. J. A., Prandoni, I., Haskell, P., **Gürkan, G.**, and Miley, G. K. "The LOFAR Two-metre Sky Survey: the radio view of the cosmic star formation history." *MNRAS* 523, 6082 (2023)
17. **Czesla, S.**, Schneider, P. C., and **Hatzes, A.** "Stellar obliquity and planetary albedo in HAT-P-32. Derived from the TESS light curve." *A&A* 677: L12 (2023)
18. **Czesla, S.**, Schneider, P. C., Schmitt, J. H. M. M., Freund, S., Salvato, M., Buchner, J., and Robrade, J. "Likelihood of the sky. Bayesian treatment of the geometric two-catalog matching problem." *A&A* 674: A136 (2023)
19. de Wet, S., Laskar, T., Groot, P. J., Cavallaro, F., **Nicuesa Guelbenzu, A.**, Chastain, S., Izzo, L., Levan, A., Malesani, D. B., Monageng, I. M., van der Horst, A. J., Zheng, W., Bloemen, S., Filippenko, A. V., Kann, D. A., **Klose, S.**, Pieterse, D. L. A., Rau, A., Vreeswijk, P. M., Woudt, P., and Zhu, Z. P. "The triple-peaked afterglow of GRB 210731A from X-ray to radio frequencies." *A&A* 671, A116 (2023)
20. Deeg, H. J., Georgieva, I. Y., Nowak, G., Persson, C. M., Cale, B. L., Murgas, F., Pallé, E., Godoy-Rivera, D., Dai, F., Ciardi, D. R., Murphy, J. M. Akana, Beck, P. G., Burke, C. J., Cabrera, J., Carleo, I., Cochran, W. D., Collins, K. A., Csizmadia, Sz., El Mufti, M., Fridlund, M., Fukui, A., Gandolfi, D., García, R. A., **Guenther, E. W.**, Guerra, P., Grziwa, S., Isaacson, H., Isogai, K., Jenkins, J. M., Ká bath, P., Korth, J., Lam, K. W. F., Latham, D. W., Luque, R., Lund, M. B., Livingston, J. H., Mathis, S., Mathur, S., Narita, N., Orell Miquel, J., Osborne, H. L. M., Parviainen, H., Plavchan, P. P., Redfield, S., Rodriguez, D. R., Schwarz, R. P., Seager, S., Smith, A. M. S., Van Eylen, V., Van Zandt, J., Winn, J. N., and Ziegler, C. "TOI-1416: A system with a super-Earth planet with a 1.07 d period." *A&A* 677, A12 (2023)
21. Di Gennaro, G., Brü ggen, M., van Weeren, R. J., Simionescu, A., Brunetti, G., Cassano, R., Forman, W. R., **Hoef t, M.**, Ignesti, A., Röttgering, H. J. A., and Shimwell, T. W. "The diffuse radio emission in the high-redshift cluster PSZ2 G091.83+26.11: Total intensity and polarisation analysis with Very Large Array 1-4 GHz observations." *A&A* 675, A51 (2023)
22. Dorn, R. J., Bristow, P., Smoker, J. V., Rodler, F., Lavail, A., Accardo, M., van den Ancker, M., Baade, D., Baruffolo, A., Courtney-Barrer, B., Blanco, L., Bru calassi, A., Cumani, C., Follert, R., Haimerl, A., **Hatzes, A.**, Haug, M., Heiter, U., Hinterschuster, R., Hubin, N., Ives, D. J., Jung, Y., Jones, M., Kaeufl, H. U., Kirchbauer, J. P., Klein, B., Kochukhov, O., Korhonen, H. H., **Köhler, J.**, Lizon, J. L., Moins, C., Molina-Conde, I., Marquart, T., Neeser,

- M., Oliva, E., Pallanca, L., Pasquini, L., Paufigue, J., Piskunov, N., Reiners, A., Schneller, D., Schmutzer, R., Seemann, U., Slumstrup, D., Smette, A., Stegmeier, J., Stempels, E., Tordo, S., Valenti, E., Valenzuela, J. J., Vernet, J., Vinther, J., and Wehrhahn, A. "CRIRES+ on sky at the ESO Very Large Telescope. Observing the Universe at infrared wavelengths and high spectral resolution." *A&A*, 671, A24 (2023)
23. Fedriani, R., Caratti o Garatti, A., Cesaroni, R., Tan, J. C., **Stecklum, B.**, Moscadelli, L., Koutoulaki, M., Cosentino, G., and Whittle, M. "The sharpest view on the high-mass star-forming region S255IR. Near infrared adaptive optics imaging of the outbursting source NIRS3." *A&A* 676, A107 (2023)
 24. Feeney-Johansson, A., Purser, S. J. D., Ray, T. P., Carrasco-González, C., Rodríguez-Kamenetzky, A., **Eislöffel, J.**, Lim, J., Galván-Madrid, R., Lizano, S., Rodríguez, L. F., Shang, H., Ho, P., and Hoare, M. "A high-resolution radio study of the L1551 IRS 5 and L1551 NE jets." *A&A* 677, A97 (2023)
 25. French, R. G., McGhee-French, C. A., Gordon, M., Baron, R. L., Bosh, A. S., Buie, M., W., Chanover, N., Clark, M. A., Dunham, E. W., French, L. M., Glass, I. S., Goguen, J. D., Gregory, B., Hock, R. A., Kangas, J. A., Levine, S. E., Matthews, K. Y., McMason, E. C., Meech, Karen J., Mink, Jessica, Nicholson, Philip D., Person, Michael J., Roques, F., Sicardy, B., **Stecklum, B.**, Tholen, D., Young, E. F., and Young, L. A. "Uranus ring occultation observations: 1977-2006." *Icarus* 395, 115474 (2023)
 26. Froebrich, D., Hillenbrand, L. A., Herbert, C., De, K., **Eislöffel, J.**, Campbell-White, J., Kahar, R., Hamsch, F.-J., Urtly, Thomas, P., Adam, B., Krzysztof, M., Andrzej, L., Slawomir, F., Jerzy, J.-W., , Piotr, D., Franky, L., Ludwig, R., Steve, P., Mark, F., George, G. F., Rafael, S. A., Francisco C., Nelson, T., Futcher, S. R. L., Rolfe, S. M., Campbell, D. A., Vale, T., Devine, P., Mózdziński, D., Mikołajczyk, P. J., Eggenstein, H.-B., Rodriguez, D., Walton, I. L., Vanaverbeke, S., Merrikin, B., Ögmen, Y., Perez, A. E., Aimar, M. M., Piehler, G., D., Lord, P., Aashini L., Miller N., Finch, J., Hankins, M., Moore, A. M., Travouillon, T., and Szczepanski, M. "A survey for variable young stars with small telescopes: VI - Analysis of the outbursting Be stars NSW 284, gaia 19eyy, and VES 263." *MNRAS* 520, 5413 (2023):
 27. Fuhrmeister, B., **Czesla, S.**, Perdelwitz, V., Nagel, E., Schmitt, J. H. M. M., Jeffers, S. V., Caballero, J. A., Zechmeister, M., Montes, D., Reiners, A., López-Gallifa, Á., Ribas, I., Quirrenbach, A., Amado, P. J., Galadí-Enríquez, D., Béjar, V. J. S., Danielski, C., **Hatzes, A. P.**, Kaminski, A., Kürster, M., Morales, J. C., and Zapatero Osorio, M. R. "The CARMENES search for exoplanets around M dwarfs. Variability on long timescales as seen in chromospheric indicators." *A&A* 670, A71 (2023)
 28. Fuhrmeister, B., **Czesla, S.**, Schmitt, J. H. M. M., Schneider, P. C., Caballero, J. A., Jeffers, S. V., Nagel, E., Montes, D., Gálvez Ortiz, M. C., Reiners, A., Ribas, I., Quirrenbach, A., Amado, P. J., Henning, Th., Lodieu, N., Martín-Ferández, P., Morales, J. C., Schöfer, P., Seifert, W., and Zechmeister, M. "The CARMENES search for exoplanets around M dwarfs. Behaviour of the Paschen lines during flares and quiescence." *A&A* 678, A1 (2023)
 29. Gajović, L., Welzmüller, F., Heesen, V., de Gasperin, F., Vollmann, M., Brüggem, M., **Basu, A.**, Beck, R., Schwarz, D. J., Bomans, D. J., and **Drabent, A.** "Weakly interacting massive particle cross section limits from LOFAR observations of dwarf spheroidal galaxies." *A&A* 673, A108 (2023)
 30. Georgieva, I. Y., Persson, C. M., Goffo, E., Acuña, L., Aguichine, A., Serrano, Luisa M., Lam, K. W. F., Gandolfi, D., Collins, K. A., Howell, S. B., Dai, F., Fridlund, M., Korth, J., Deleuil, M., Barragán, O., Cochran, W. D., Csizmadia, Sz., Deeg, H. J., **Guenther, E.**, **Hatzes, A. P.**, Jenkins, J. M., Livingston, J., Luque, R., Mousis, O., Osborne, H. L. M., Palle, E., Redfield, S., Van Eylen, V., Twicken, J. D., Winn, J. N., Alqasim, A., Collins, K. I., Gnilka, C. L., Latham, D. W., Lewis, H. M., Relles, H. M., Ricker, G. R., Rowden, P., Seager, S., Shporer, A., Tan, T.-G., Vanderburg, A. and Vanderspek, R. "TOI-733 b: A planet in the small-planet radius valley orbiting a Sun-like star." *A&A* 674: A117 (2023)

31. Gieseler, J., Dresing, N., Palmroos, C., Freiherr von Forstner, J. L., Price, D. J., Vainio, R., Kouloumvakos, A., Rodríguez-García, L., Trotta, D., Génot, V., Masson, A., **Roth, M.** and Veronig, A. "Solar-MACH: An open-source tool to analyze solar magnetic connection configurations." *Frontiers in Astronomy and Space Sciences* 9, 384 (2023)
32. **Goffo, E.** Gandolfi, D., Egger, J. A., Mustill, A. J., Albrecht, S. H., Hirano, T., Kochukhov, O., Astudillo-Defru, N., Barragan, O., Serrano, Luisa M., **Hatzes, Artie P.**, Alibert, Yann, **Guenther, E.**, Dai, F., Lam, K. W. F., Csizmadia, Sz., Smith, A. M. S., Fossati, L., Luque, R., Rodler, F., Winther, M. L., Rørsted, J. L., Alarcon, J., Bonfils, X., Cochran, W. D., Deeg, H. J., Jenkins, J. M., Korth, J., Livingston, J. H., Meech, A., Murgas, F., Orell-Miquel, J., Osborne, H. L. M., Palle, E., Persson, C. M., Redfield, S., Ricker, G. R., Seager, S., Vanderspek, R., Van Eylen, V., and Winn, J. N. "Company for the Ultra-high Density, Ultra-short Period Sub-Earth GJ 367 b: Discovery of Two Additional Low-mass Planets at 11.5 and 34 Days." *ApJ* 955, L3 (2023)
33. González-Álvarez, E., Kemmer, J., **Chaturvedi, P.**, Caballero, J. A., Quirrenbach, A., Amado, P. J., Béjar, V. J. S., Cifuentes, C., Herrero, E., Kossakowski, D., Reiners, A., Ribas, I., Rodríguez, E., Rodríguez-López, C., Sanz-Forcada, J., Shan, Y., Stock, S., Taberner, H. M., Tal-Or, L., Osorio, M. R. Zapatero, **Hatzes, A. P.**, Henning, Th., López-González, M. J., Montes, D., Morales, J. C., Pallé, E., Pedraz, S., Perger, M., Reffert, S., Sabotta, S., Schweitzer, A., and Zechmeister, M. "The CARMENES search for exoplanets around M dwarfs. A sub-Neptunian mass planet in the habitable zone of HN Lib." *A&A* 675, A141 (2023)
34. González-Álvarez, E., Zapatero Osorio, M. R., Caballero, J. A., Béjar, V. J. S., Cifuentes, C., Fukui, A., Herrero, E., Kawauchi, K., Livingston, J. H., López-González, M. J., Morello, G., Murgas, F., Narita, N., Pallé, E., Passegger, V. M., Rodríguez, E., Rodríguez-López, C., Sanz-Forcada, J., Schweitzer, A., Taberner, H. M., Quirrenbach, A., Amado, P. J., Charbonneau, D., Ciardi, D. R., Cikota, S., Collins, K. A., Conti, D. M., Fausnaugh, M., **Hatzes, A. P.**, Hedges, C., Henning, Th., Jenkins, J. M., Latham, D. W., Massey, B., Moldovan, D., Montes, D., Panahi, A., Reiners, A., Ribas, I., Ricker, G. R., Seager, S., Shporer, A., Srdoc, G., Tenenbaum, P., Vanderspek, R., Winn, J. N., Fukuda, I., Ikoma, M., Isogai, K., Kawai, Y., Mori, M., Tamura, M., and Watanabe, N. "Two sub-Neptunes around the M dwarf TOI-1470." *A&A* 675, A177 (2023)
35. Gordon, Y. A., Rudnick, L., **Andernach, H.**, Morabito, L. K., O'Dea, C. P., Achong, K.-M., Baum, S. A., Bayona-Figueroa, C., Hooper, E. J., Mingo, B., Morris, M. E., and Vantghem, A. N. "A Quick Look at the 3 GHz Radio Sky. II. Hunting for DRAGNs in the VLA Sky Survey." *ApJS* 267, 37 (2023)
36. Gorrini, P., Kemmer, J., Dreizler, S., Burn, R., Hirano, T., Pozuelos, F. J., Kuzuhara, M., Caballero, J. A., Amado, P. J., Harakawa, H., Kudo, T., Quirrenbach, A., Reiners, A., Ribas, I., Béjar, V. J. S., **Chaturvedi, P.**, Cifuentes, C., Galadi-Enríquez, D., **Hatzes, A.P.**, Kaminski, A., Kotani, T., Kürster, M., Livingston, J. H., López González, M. J., Montes, D., Morales, J. C., Murgas, F., Omiya, M., Pallé, E., Rodríguez, E., Sato, B., Schweitzer, A., Shan, Y., Takarada, T., Tal-Or, L., Tamura, M., Vievard, S., Zapatero Osorio, M. R., and Zechmeister, M. "Planetary companions orbiting the M dwarfs GJ 724 and GJ 3988. A CARMENES and IRD collaboration." *A&A* 680, A28 (2023)
37. Gupta, N., Hayder, Z., Norris, R. P., Huynh, M., Petersson, L., Wang, X. R., **Andernach, H.**, Koribalski, B. S., Yew, M., and Crawford, E. J. "Deep learning for morphological identification of extended radio galaxies using weak labels", *PASA*, 40, e44 (2023)
38. Hahlin, A., Kochukhov, O., Rains, A. D., Lavail, A., **Hatzes, A.**, Piskunov, N., Reiners, A., Seemann, U., Boldt-Christmas, L., **Guenther, E. W.**, Heiter, U., Nortmann, L., Yan, F., Shulyak, D., Smoker, J. V., Rodler, F., Bristow, P., Dorn, R. J., Jung, Y., Marquart, T., and Stempels, E. "Determination of small-scale magnetic fields on Sun-like stars in the near-

- infrared using CRIRES+.” *A&A* 675, A91 (2023)
39. Hambálek, L., Krushevska, V., Pribulla, T., Vaňko, M., Budaj, J., Fiorucci, M., Garai, Z., **Guenther, E.**, Komžík, R., Kundra, E., Munari, U., and Smalley, B. “T Tauri stars in the SuperWASP and NSVS surveys II. Spectral modelling.” *MNRAS* 524 3582 (2023)
 40. Hardcastle, M. J., Horton, M. A., Williams, W. L., Duncan, K. J., Alegre, L., Barkus, B., Croston, J. H., Dickinson, H., Osinga, E., Röttgering, H. J. A., Sabater, J., Shimwell, T. W., Smith, D. J. B., Best, P. N., Botteon, A., Brüggén, M., **Drabent, A.**, de Gasperin, F., Gürkan, G., Hajduk, M., Hale, C. L., **Hoefl, M.**, Jamrozy, M., Kunert-Bajraszewska, M., Kondapally, R., Magliocchetti, M., Mahatma, V. H., Mostert, R. I. J., O’Sullivan, S. P., Pajdosz-Śmierciak, U., Petley, J., Pierce, J. C. S., Prandoni, I., Schwarz, D. J., Shulewski, A., Siewert, T. M., Stott, J. P., Tang, H., Vaccari, M., Zheng, X., Bailey, T., Desbled, S., Goyal, A., Gonano, V., Hanset, M., Kurtz, W., Lim, S. M., Mielle, L., Molloy, C. S., Roth, R., Terentev, I. A., and Torres, M. “The LOFAR Two-Metre Sky Survey. VI. Optical identifications for the second data release.” *A&A* 678, A151 (2023)
 41. Heesen, V., de Gasperin, F., Schulz, S., **Basu, A.**, Beck, R., Brüggén, M., Dettmar, R. J., Stein, M., Gajović, L., Tabatabaei, F. S., and Reichherzer, P. “Diffusion of cosmic-ray electrons in M 51 observed with LOFAR at 54 MHz.” *A&A* 672, A21 (2023)
 42. Heesen, V., Klocke, T. L., Brüggén, M., Tabatabaei, F. S., **Basu, A.**, Beck, R., **Drabent, A.**, Nikiel-Wroczyński, B., Paladino, R., Schulz, S., and Stein, M. “Nearby galaxies in the LOFAR Two-metre Sky Survey. II. The magnetic field-gas relation.” *A&A* 669, A8 (2023)
 43. Heesen, V., O’Sullivan, S. P., Brüggén, M., **Basu, A.**, Beck, R., Seta, A., Carretti, E., Krause, M. G. H., Haverkorn, M., Hutschenreuter, S., Bracco, A., Stein, M., Bomans, D. J., Dettmar, R. J., Chyży, K. T., Heald, G. H., Paladino, R., and Horellou, C. “Detection of magnetic fields in the circumgalactic medium of nearby galaxies using Faraday rotation.” *A&A* 670, L23 (2023)
 44. Herczeg, G. J., Chen, Y., Donati, J.-F., Dupree, A. K., Walter, F. M., Hillenbrand, L. A., Johns-Krull, C. M., Manara, C. F., Günther, H. M., Fang, M., Schneider, P. C., Valenti, J. A., Alencar, S. H. P., Venuti, L., Alcalá, J. M., Frasca, A., Arulanandham, N., Linsky, J. L., Bouvier, J., Brickhouse, N. S., Calvet, N., Espaillat, C. C., Campbell-White, J., Carpenter, J. M., Chang, S.-J., Cruz, K. L., Dahm, S. E., **Eisloffel, J.**, Edwards, S., Fischer, W. J., Guo, Z., Henning, Th., Ji, T., Jose, J., Kastner, J. H., Launhardt, R., Principe, D. A., Robinson, Conner E., Serna, J., Siwak, M., Sterzik, M. F., and Takasao, S. “Twenty-five Years of Accretion onto the Classical T Tauri Star TW Hya.” *ApJ* 956, 102 (2023)
 45. Hintz, D., Peacock, S., Barman, T., Fuhrmeister, B., Nagel, E., Schweitzer, A., Jeffers, S. V., Ribas, I., Reiners, A., Quirrenbach, A., Amado, P. J., Béjar, Victor J. S., Caballero, José A., **Hatzes, Artie P.**, and Montes, David. “Modeling the Chromosphere and Transition Region of Planet-hosting Star GJ 436.” *ApJ* 954, 73 (2023)
 46. Hirano, T., Dai, F., Livingston, J. H., Grziwa, S., Lam, K. W. F., Kasagi, Y., Narita, N., Ishikawa, Hiroyuki T., Miyakawa, K., Serrano, L. M., Matsumoto, Y., Kokubo, Eiichiro, K., T., Ikoma, M. Winn, J. N., Wisniewski, J. P., Harakawa, H., Teng, H.-Y., Cochran, W. D., Fukui, A., Gandolfi, D., **Guenther, E. W.**, Hori, Y., Ikuta, K., Kawauchi, K., Knudstrup, E., Korth, J., Kotani, T., Krishnamurthy, V., Kudo, T., Kurokawa, T., Kuzuhara, M., Luque, R., Mori, M., Nishikawa, J., Omiya, M., Orell-Miquel, J., Palle, E., C. M., Redfield, S., Serabyn, E., Smith, A. M. S., Takahashi, A., Takarada, T., Ueda, A., Van Eylen, V., Vievard, Sébastien, Tamura, M. and Sato, Bunéi. “An Earth-sized Planet around an M5 Dwarf Star at 22 pc.” *AJ* 165, 31 (2023)
 47. Ignesti, B., Vulcani, P., Marasco, S., Hardcastle, B., Roberts, F., Ignesti, A., Brienza, M., Vulcani, B., Poggianti, B. M., Marasco, A., Smith, R., Hardcastle, M. J., Botteon, A., Roberts, D., Fritz, J., Paladino, R., Gitti, M., Wolter, A., Tomicić, N., McGee, S., Moretti, A., Gullieuszik, M., and **Drabent, A.** “On the Encounter between the GASP Galaxy JO36 and the Radio Plume of GIN 049.” *ApJ* 956, 122 (2023)

48. Jones, A., de Gasperin, F., Cuciti, V., Botteon, A., Zhang, X., Gastaldello, F., Shimwell, T., Simionescu, A., Rossetti, M., Cassano, R., Akamatsu, H., Bonafede, A., Brüggem, M., Brunetti, G., Camillini, L., Di Gennaro, G., **Drabent, A.**, Hoang, D. N., Rajpurohit, K., Natale, R., Tasse, C., and van Weeren, R. J. "The Planck clusters in the LOFAR sky. VI. LoTSS-DR2: Properties of radio relics." *A&A* 680, A31 (2023)
49. Knudstrup, E., Gandolfi, D., Nowak, G., Persson, C. M., Furlan, E., Livingston, J., Matthews, E., Lundkvist, M. S., Winther, M. L., Rørsted, J. L., Albrecht, S. H., **Goffo, E.**, Carleo, I., Deeg, H. J., Collins, K. A., Narita, N., Isaacson, H., Redfield, S., Dai, F., Hirano, T., Akana Murphy, J. M., Beard, C., Buchhave, L. A., Cary, S., Chontos, A., Crossfield, I., Cochran, W. D., Conti, D., Dalba, P. A., **Esposito, M.**, Fajardo-Acosta, S., Giacalone, S., Grunblatt, S. K., Guerra, P., **Hatzes, A. P.**, Holcomb, R., Horta, F. G., Howard, A. W., Huber, D., Jenkins, J. M., Kabath, P., Kane, S., Korth, J., Lam, K. W. F., Lester, K. V., Matson, R., McLeod, K. K., Orell-Miquel, J., Murgas, F., Palle, E., Polanski, A. S., Ricker, G., Robertson, P., Rubenzahl, R., Schlieder, J. E., Seager, S., Smith, A. M. S., Tenenbaum, P., Turtelboom, E., Vanderspek, R., Weiss, L., and Winn, J. "Radial velocity confirmation of a hot super-Neptune discovered by TESS with a warm Saturn-mass companion." *MNRAS* 519, 5637 (2023)
50. Kobak, A., Bartkiewicz, A., Szymczak, M., Olech, M., Durjasz, M., Wolak, P., Chibueze, J. O., Hirota, T., **Eislöffel, J.**, **Stecklum, B.**, Sobolev, A., Bayandina, O., Orosz, G., Burns, R. A., Kim, K. T., and van den Heever, S. P. "Multi-frequency VLBI observations of maser lines during the 6.7 GHz maser flare in the high-mass young stellar object G24.33+0.14." *A&A* 671, A135 (2023)
51. Korth, J., Gandolfi, D., Šubjak, J., Howard, S., Ataiee, S., Collins, K. A., Quinn, S. N., Mustill, A. J., Guillot, T., Lodieu, N., Smith, A. M. S., **Esposito, M.**, Rodler, F., Muresan, A., Abe, L., Albrecht, S. H., Alqasim, A., Barkaoui, K., Beck, P. G., Burke, C. J., Butler, R. P., Conti, D. M., Collins, K. I., Crane, J. D., Dai, F., Deeg, H. J., Evans, P., Grziwa, S., **Hatzes, A. P.**, Hirano, T., Horne, K., Huang, C. X., Jenkins, J. M., Kabáth, P., Kielkopf, J. F., Knudstrup, E., Latham, D. W., Livingston, J., Luque, R., Mathur, S., Murgas, F., Osborne, H. L. M., Palle, E., Persson, C. M., Rodriguez, J. E., Rose, M., Rowden, P., Schwarz, R. P., Seager, S., Serrano, L. M., Sha, L., Shectman, S. A., Shporer, A., Srdoc, G., Stockdale, C., Tan, T. G., Teske, J. K., Van Eylen, V., Vanderburg, A., Vanderspek, R., Wang, S. X., and Winn, J. N. "TOI-1130: A photodynamical analysis of a hot Jupiter in resonance with an inner low-mass planet." *A&A* 675, A115 (2023)
52. Kossakowski, D., Kürster, M., Trifonov, T., Henning, Th., Kemmer, J., Caballero, J. A., Burn, R., Sabotta, S., Crouse, J. S., Fauchez, T. J., Nagel, E., Kaminski, A., Herrero, E., Rodríguez, E., González-Alvarez, E., Quirrenbach, A., Amado, P. J., Ribas, I., Reiners, A., Aceituno, J., Béjar, V. J. S., Baroch, D., Bastelberger, S. T., **Chaturvedi, P.**, Cifuentes, C., Dreizler, S., Jeffers, S. V., Kopparapu, R., Lafarga, M., Loópez-González, M. J., Martín-Ruiz, S., Montes, D., Morales, J. C., Palle, E., Pavlov, A., Pedraz, S., Perdelwitz, V., Pérez-Torres, M., Perger, M., Reffert, S., Rodríguez López, C., Schlecker, M., Schöfer, P., Schweitzer, A., Shan, Y., Shields, A., Stock, S., Wolf, E., Zapatero Osorio, M. R., and Zechmeister, M. "The CARMENES search for exoplanets around M dwarfs. Wolf 1069 b: Earth-mass planet in the habitable zone of a nearby, very low-mass star." *A&A* 670, A84 (2023)
53. Lafarga, M., Ribas, I., Zechmeister, M., Reiners, A., López-Gallifa, Á., Montes, D., Quirrenbach, A., Amado, P. J., Caballero, J. A., Azzaro, M., Béjar, V. J. S., **Hatzes, P.**, Henning, Th., Jeffers, S. V., Kaminski, A., Kürster, M., Schöfer, P., Schweitzer, A., Taberner, H. M., and Osorio, M. R. Zapatero. "The CARMENES search for exoplanets around M dwarfs. Line-by-line sensitivity to activity in M dwarfs." *A&A* 674, A61 (2023)
54. Lampón, M., López-Puertas, M., Sanz-Forcada, J., **Czesla, S.**, Nortmann, L., Casasayas-

- Barris, N., Orell-Miquel, J., S´anchez-L´opez, A., Danielski, C., Pall´e, E., Molaverdikhani, K., Henning, Th., Caballero, J. A., Amado, P. J., Quirrenbach, A., Reiners, A., and Ribas, I. “Characterisation of the upper atmospheres of HAT-P-32 b, WASP-69 b, GJ 1214 b, and WASP-76 b through their He I triplet absorption.” *A&A* 673, A140 (2023)
55. Launhardt, R., Pavlyuchenkov, Ya. N., Akimkin, V. V., Dutrey, A., Gueth, F., Guilloteau, S., Henning, Th., P´ietu, V., Schreyer, K., Semenov, D., **Stecklum, B.**, and Bourke, T. L. “A resolved rotating disk wind from a young T Tauri star in the Bok globule CB 26.” *A&A* 678, A135 (2023)
56. Lesjak, F., Nortmann, L., Yan, F., Cont, D., Reiners, A., Piskunov, N., **Hatzes, A.**, Boldt-Christmas, L., **Czesla, S.**, Heiter, U., Kochukhov, O., Lavail, A., Nagel, E., Rains, A. D., Rengel, M., Rodler, F., Seemann, U., and Shulyak, D. “Retrieval of the dayside atmosphere of WASP-43b with CRIRES+.” *A&A* 678, A23 (2023)
57. Lillo-Box, J., Gandolfi, D., Armstrong, D. J., Collins, K. A., Nielsen, L. D., Luque, R., Korth, J., Sousa, S. G., Quinn, S. N., Acuña, L., Howell, S. B., Morello, G., Hellier, C., Giacalone, S., Hoyer, S., Stassun, K., Palle, E., Aguichine, A., Mousis, O., Adibekyan, V., Azevedo Silva, T., Barrado, D., Deleuil, M., Eastman, J. D., Fukui, A., Hawthorn, F., Irwin, J. M., Jenkins, J. M., Latham, D. W., Muresan, A., Narita, N., Persson, C. M., Santerne, A., Santos, N. C., Savel, A. B., Osborn, H. P., Teske, J., Wheatley, P. J., Winn, J. N., Barros, S. C. C., Butler, R. P., Caldwell, D. A., Charbonneau, D., Cloutier, R., Crane, J. D., Demangeon, O. D. S., D´iaz, R. F., Dumusque, X., **Esposito, M.**, Falk, B., Gill, H., Hojjatpanah, S., Kreidberg, L., Mireles, I., Osborn, A., Ricker, G. R., Rodriguez, J. E., Schwarz, R. P., Seager, S., Serrano Bell, J., Shectman, S. A., Shporer, A., Vezie, M., Wang, S. X., and Zhou, G. “TOI-969: a late-K dwarf with a hot mini-Neptune in the desert and an eccentric cold Jupiter.” *A&A* 669, A109 (2023)
58. Luque, R., Osborn, H. P., Leleu, A., Pall´e, E., Bonfanti, A., Barrag´an, O., Wilson, T. G., Broeg, C., Cameron, A. Collier, Lendl, M., Maxted, P. F. L., Alibert, Y., Gandolfi, D., Delisle, J. B., Hooton, M. J., Egger, J. A., Nowak, G., Lafarga, M., Rapetti, D., Twicken, J. D., Morales, J. C., Carleo, I., Orell-Miquel, J., Adibekyan, V., Alonso, R., Alqasim, A., Amado, P. J., Anderson, D. R., Anglada-Escud´e, G., Bandy, T., B´arczy, T., Barrado Navascues, D., Barros, S. C. C., Baumjohann, W., Bayliss, D., Bean, J. L., Beck, M., Beck, T., Benz, W., Billot, N., Bonfils, X., Borsato, L., Boyle, A. W., Brandeker, A., Bryant, E. M., Cabrera, J., Carrasco-Gaxiola, S., Charbonneau, D., Charnoz, S., Ciardi, D. R., Cochran, W. D., Collins, K. A., Crossfield, I. J. M., Csizmadia, Sz., Cubillos, P. E., Dai, F., Davies, M. B., Deeg, H. J., Deleuil, M., Deline, A., Delrez, L., Demangeon, O. D. S., Demory, B. O., Ehrenreich, D., Erikson, A., Esparza-Borges, E., Falk, B., Fortier, A., Fossati, L., Fridlund, M., Fukui, A., Garcia-Mejia, J., Gill, S., Gillon, M., **Goffo, E.**, G´omez Maqueo Chew, Y., Gdel, M., **Guenther, E. W.**, Gnther, M. N., **Hatzes, A. P.**, Helling, Ch., Hesse, K. M., Howell, S. B., Hoyer, S., Ikuta, K., Isaak, K. G., Jenkins, J. M., Kagitani, T., Kiss, L. L., Kodama, T., Korth, J., Lam, K.W. F., Laskar, J., Latham, D.W., Lecavelier des Etangs, A., Leon, J. P. D., Livingston, J. H., Magrin, D., Matson, R. A., Matthews, E. C., Mordasini, C., Mori, M., Moyano, M., Munari, M., Murgas, F., Narita, N., Nascimbeni, V., Olofsson, G., Osborne, H. L. M., Ottensamer, R., Pagano, I., Parviainen, H., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Quinn, S. N., Quirrenbach, A., Ragazzoni, R., Rando, N., Ratti, F., Rauer, H., Redfield, S., Ribas, I., Ricker, G. R., Rudat, A., Sabin, L., Salmon, S., Santos, N. C., Scandariato, G., Schanche, N., Schlieder, J. E., Seager, S., S´egransan, D., Shporer, A., Simon, A. E., Smith, A. M. S., Sousa, S. G., Stalport, M., Szab´o, Gy. M., Thomas, N., Tuson, A., Udry, S., Vanderburg, A. M., Van Eylen, V., Van Grootel, V., Venturini, J., Walter, I., Walton, N. A., Watanabe, N., Winn, J. N., and Zingales, T. “A resonant sextuplet of sub-Neptunes transiting the bright star HD 110067.” *Nature* 623.7989. 932 (2023)
59. **Mahatma, V. H.**, **Basu, A.**, Hardcastle, M. J., Morabito, L. K., and van Weeren, R. J. “A low frequency sub-arcsecond view of powerful radio galaxies in rich-cluster environments: 3C

- 34 and 3C 320.” MNRAS 520, 4427 (2023)
60. **Mahatma, V. H.** “The Dynamics and Energetics of Remnant and Restarting RLAGN.” *Galaxies* 11, 74 (2023)
61. Mallorquín, M., **Goffo, E.**, Palleé, E., Lodieu, N., Béjar, V. J. S., Isaacson, H., Zapatero Osorio, M. R., Dreizler, S., Stock, S., Luque, R., Murgas, F., Peña, L., Sanz-Forcada, J., Morello, G., Ciardi, D. R., Furlan, E., Collins, K. A., Herrero, E., Vanaverbeke, S., Plavchan, P., Narita, N., Schweitzer, A., Pérez-Torres, M., Quirrenbach, A., Kemmer, J., **Hatzes, A. P.**, Howard, A., Schlecker, M., Reffert, S., Nagel, E., Morales, J. C., Orell-Miquel, J., Duque-Arribas, C., Carleo, I., Cifuentes, C., Nowak, G., Ribas, I., Reiners, A., Amado, P. J., Caballero, J. A., Henning, Th., Pinter, V., Murphy, J. M. Akana, Beard, C., Blunt, S., Brinkman, C. L., Cale, B., Chontos, A., Collins, K. I., Crossfield, I. J. M., Dai, F., Dalba, P. A., Dufoer, S., El Mufti, M., Espinoza, N., Fetherolf, T., Fukui, A., Giacalone, S., Gnilka, C., Gonzales, E., Grunblatt, S. K., Howell, S., Huber, D., Kane, S. R., de León, J. P., Lubin, J., MacDougall, M. G., Massey, B., Montes, D., Mori, M., Parviainen, H., Passegger, V. M., Polanski, A. S., Robertson, P., Schwarz, R. P., Srdoc, G., Taberner, H. M., Tanner, A., Turtelboom, E., Van Zandt, J., Weiss, L., and Zechmeister, M. “TOI-1801 b: A temperate mini-Neptune around a young M0.5 dwarf.” *A&A* 680, A76 (2023)
62. **Melnikov, S.**, Boley, P. A., Nikonova, N. S., Caratti o Garatti, A., Garcia Lopez, R., **Stecklum, B.**, **Eislöffel, J.**, and Weigelt, G. “Study of the bipolar jet of the YSO Th 28 with VLT/SINFONI: Jet morphology and H₂ emission.” *A&A* 673, A156 (2023)
63. Nagel, E., **Czesla, S.**, Kaminski, A., Zechmeister, M., Tal-Or, L., Schmitt, J. H. M. M., Reiners, A., Quirrenbach, A., García López, A., Caballero, J. A., Ribas, I., Amado, P. J., Béjar, V. J. S., Cortés-Contreras, M., Dreizler, S., **Hatzes, A. P.**, Henning, Th., Jeffers, S. V., Kürster, M., Lafarga, M., López-Puertas, M., Montes, D., Morales, J. C., Pedraz, S., and Schweitzer, A. “The CARMENES search for exoplanets around M dwarfs. Telluric absorption corrected high S/N optical and near-infrared template spectra of 382 M dwarf stars.” *A&A* 680, A73 (2023)
64. Oei, M. S. S. L., van Weeren, R. J., Gast, A. R. D. J. G. I. B., Botteon, A., Hardcastle, M. J., Dabhade, P., Shimwell, T. W., Röttgering, H. J. A., and **Drabent, A.** “Measuring the giant radio galaxy length distribution with the LoTSS.” *A&A* 672, A163 (2023)
65. Orell-Miquel, J., Lampón, M., López-Puertas, M., Mallorquín, M., Murgas, F., Peláez-Torres, A., Pallé, E., Esparza-Borges, E., Sanz-Forcada, J., Taberner, H. M., Nortmann, L., Nagel, E., Parviainen, H., Zapatero Osorio, M. R., Caballero, J. A., **Czesla, S.**, Cifuentes, C., Morello, G., Quirrenbach, A., Amado, P. J., Fernández-Martín, A., Fukui, A., Henning, Th., Kawauchi, K., de León, J. P., Molaverdikhani, K., Montes, D., Narita, N., Reiners, A., Ribas, I., Sánchez-López, A., Schweitzer, A., Stangret, M., and Yan, F. “Confirmation of an He I evaporating atmosphere around the 650-Myr-old sub-Neptune HD 235088 b (TOI-1430 b) with CARMENES.” *A&A* 677, A56 (2023)
66. O’Sullivan, S. P., Shimwell, T. W., Hardcastle, M. J., Tasse, C., Heald, G., Carretti, E., Brüggén, M., Vacca, V., Sobey, C., Van Eck, C. L., Horellou, C., Beck, R., Bilicki, M., Bourke, S., Botteon, A., Croston, J. H., **Drabent, A.**, Duncan, K., Heesen, V., Ideguchi, S., Kirwan, M., Lawlor, L., Mingo, B., Nikiel-Wroczyński, B., Piotrowska, J., Scaife, A. M. M., and van Weeren, R. J. “The Faraday Rotation Measure Grid of the LOFAR Two-metre Sky Survey: Data Release 2.” MNRAS 519, 5723 (2023)
67. Palle, E., Orell-Miquel, J., Brady, M., Bean, J., **Hatzes, A. P.**, Morello, G., Morales, J. C., Murgas, F., Molaverdikhani, K., Parviainen, H., Sanz-Forcada, J., Béjar, V. J. S., Caballero, J. A., Sreenivas, K. R., Schlecker, M., Ribas, I., Perdelwitz, V., Tal-Or, L., Pérez-Torres, M., Luque, R., Dreizler, S., Fuhrmeister, B., Aceituno, F., Amado, P. J., Anglada-Escudé, S., Espinoza, N., Essack, Z., Fukui, A., Chew, Y. Gómez Maqueo, Gómez-Muñoz, M. A., Henning, Th., Herrero, E., Jeffers, S. V., Jenkins, J., Kaminski, A., Kasper, J., Kunimoto, M., Latham, D., Lillo-Box, J., López-González, M. J., Montes, D., Mori, M., Narita, N.,

- Quirrenbach, A., Pedraz, S., Reiners, A., Rodríguez, E., Rodríguez-López, C., Sabin, L., Schanche, N., Vanaverbeke, S., Wells, R. D., Zapatero-Osorio, M. R., and Zechmeister, M. “GJ 806 (TOI-4481): A bright nearby multi-planetary system with a transiting hot low density super-Earth.” *A&A* 678, A80 (2023)
68. Paul, S., Kale, R., Datta, A., **Basu, A.**, Sur, S., Parekh, V., Gupta, P., Chatterjee, S., Salunkhe, S., Iqbal, A., Pandey-Pommier, M., Raja, R., Rahaman, M., Raychaudhury, S., Nath, B. B., and Majumdar, S. “Exploring diffuse radio emission in galaxy clusters and groups with uGMRT and SKA.” *Journal of Astrophysics and Astronomy* 44, 38 (2023):
69. **Pruthvi, H. and Roth, M.** “The New HELLRIDE at the Vacuum Tower Telescope.” *Sol. Phys.* 298, 41 (2023)
70. Rajpurohit, K., Osinga, E., Brienza, M., Botteon, A., Brunetti, G., Forman, W. R., Riseley, C. J., Vazza, F., Bonafede, A., van Weeren, R. J., Brüggén, M., Rajpurohit, S., **Drabent, A.**, Dallacasa, D., Rossetti, M., Rajpurohit, A. S., **Hoefl, M.**, Bonnassieux, E., Cassano, R., and Miley, G. K. “Deep low-frequency radio observations of Abell 2256. II. The ultra-steep spectrum radio halo.” *A&A* 669, A1 (2023)
71. Ribas, I., Reiners, A., Zechmeister, M., Caballero, J. A., Morales, J. C., **Sabotta, S.**, Baroch, D., Amado, P. J., Quirrenbach, A., Abril, M., Aceituno, J., Anglada-Escudé, G., Azzaro, M., Barrado, D., B´ejar, V. J. S., Benítez de Haro, D., Bergond, G., Bluhm, P., Calvo Ortega, R., Cardona Guillén, C., **Chaturvedi, P.**, Cifuentes, C., Colomé, J., Cont, D., Cortés-Contreras, M., **Czesla, S.**, Díez-Alonso, E., Dreizler, S., Duque-Arribas, C., Espinoza, N., Fernández, M., Fuhrmeister, B., Galadí-Enríquez, D., García-López, A., González-A´lvarez, E., González Hernández, J. I., **Guenther, E. W.**, de Guindos, E., **Hatzes, A. P.**, Henning, Th., Herrero, E., Hintz, D., Huelmo, Á. L., Jeffers, S. V., Johnson, E. N., de Juan, E., Kaminski, A., Kemmer, J., Khaimova, J., Khalafinejad, S., Kossakowski, D., Kürster, M., Labarga, F., Lafarga, M., Lalitha, S., Lampón, M., Lillo-Box, J., Lodieu, N., López González, M. J., López-Puertas, M., Luque, R., Mag´an, H., Mancini, L., Marfil, E., Martín, E. L., Martín-Ruiz, S., Molaverdikhani, K., Montes, D., Nagel, E., Nortmann, L., Nowak, G., Pallé, E., Passegger, V. M., Pavlov, A., Pedraz, S., Perdelwitz, V., Perger, M., Ramón-Ballesta, A., Reffert, S., Revilla, D., Rodríguez, E., Rodríguez-López, C., Sadegi, S., Sánchez Carrasco, M. Á., Sánchez-López, A., Sanz-Forcada, J., Schäfer, S., Schlecker, M., Schmitt, J. H. M. M., Schöfer, P., Schweitzer, A., Seifert, W., Shan, Y., Skrzypinski, S. L., Solano, E., Stahl, O., Stangret, M., Stock, S., Stürmer, J., Taberner, H. M., Tal-Or, L., Trifonov, T., Vanaverbeke, S., Yan, F., and Zapatero Osorio, M. R. “The CARMENES search for exoplanets around M dwarfs. Guaranteed time observations Data Release 1 (2016-2020).” *A&A* 670, A139 (2023)
72. Saito, R. K., **Stecklum, B.**, Minniti, D., Lucas, P. W., Guo, Z., Smith, L. C., Fraga, L., Navarete, F., Beamín, Juan Carlos, and Morris, Calum. “VVV-WIT-12 and Its Fashionable Nebula: A 4 yr Long-period Young Stellar Object with a Light Echo?” *ApJ* 958, L1 (2023)
73. Schmitt, J. H. M. M., **Czesla, S.**, Wichmann, R., and Robrade, J. “Apsidal motion in the a CrB binary system revealed through X-ray and optical eclipse timing.” *A&A* 676, A86 (2023)
74. Segal, G., Parkinson, D., Norris, R., Hopkins, A. M., **Andernach, H.**, Alexander, E. L., Carretti, E., Koribalski, B. S., Legodi, L. S., Leslie, S., Luo, Y., Pierce, J. C. S., Tang, H., **Vardoulaki, E.**, and Vernstrom, T. “Identifying anomalous radio sources in the Evolutionary Map of the Universe Pilot Survey using a complexity-based approach.” *MNRAS* 521, 1429 (2023):
75. Silverman, J. D., Mainieri, V., Ding, X., Liu, D., Jahnke, K., Hirschmann, M., Kartaltepe, J., Lambrides, E., Onoue, M., Trakhtenbrot, B., **Vardoulaki, E.**, Bongiorno, A., Casey, C., Civano, F., Faisst, A., Franco, M., Gillman, S., Gozaliasl, G., Hayward, C. C., Koekemoer, A. M., Kokorev, V., Magdis, G., Marchesi, S., Rich, R. M., Sparre, M., Suh, H., Tanaka, T., and Valentino, F.. “Resolving Galactic-scale Obscuration of X-Ray AGNs at $z \approx 1$ with COSMOS-Web.” *ApJ* 951, L41 (2023)

76. Simonte, M., **Andernach, H.**, Brügggen, M., Best, P. N., and Osinga, E. “Revisiting the alignment of radio galaxies in the ELAIS-N1 field.” *A&A* 672, A178 (2023)
77. Suárez Mascareño, A., González-Álvarez, E., Zapatero Osorio, M. R., Lillo-Box, J., Faria, J. P., Passegger, V. M., González Hernández, J. I., Figueira, P., Sozzetti, A., Rebolo, R., Pepe, F., Santos, N. C., Cristiani, S., Lovis, C., Silva, A. M., Ribas, I., Amado, P. J., Caballero, J. A., Quirrenbach, A., Reiners, A., Zechmeister, M., Delisle, J. B., Di Marcantonio, P., Dreizler, S., Ehrenreich, D., **Hatzes, A. P.**, Hara, N. C., Henning, Th., Kaminski, A., López-González, M. J., Martins, C. J. A. P., Micela, G., Montes, D., Pall’e, E., Pedraz, S., Rodríguez, E., Rodríguez-L’opez, C., Tal-Or, L., Sousa, S., and Udry, S. “Two temperate Earth-mass planets orbiting the nearby star GJ 1002.” *A&A* 670, A5 (2023)
78. Wu, Z. Coles, W. A., Verbiest, J. P. W., Ambalappat, K. M., Tiburzi, C., Gießmeier, J.-M., Main, R. A., Liu, Y., Kramer, M., Wucknitz, O., Porayko, N., Osłowski, S., Nielsen, A. B., Donner, J. Y., **Hoefl, M.**, Brügggen, M., Vocks, C., Dettmar, R. J., Theureau, G., Serylak, M., Kondratiev, V., McKee, J. W., Shaifullah, G. M., Kravtsov, I.P., Zakharenko, V. V., Ulyanov, O., Konovalenko, O. O., Zarka, P., Cecconi, B., Koopmans, L. V. E., and Corbel, S. “Pulsar scintillation studies with LOFAR: II. Dual-frequency scattering study of PSR J0826+2637 with LOFAR and NenuFAR.” *MNRAS* 520, 5536 (2023)
79. Yan, F., Nortmann, L., Reiners, A., Piskunov, N., **Hatzes, A.**, Seemann, U., Shulyak, D., Lavail, A., Rains, A. D., Cont, D., Rengel, M., Lesjak, F., Nagel, E., Kochukhov, O., **Czesla, S.**, Boldt-Christmas, L., Heiter, U., Smoker, J. V., Rodler, F., Bristow, P., Dorn, R. J., Jung, Y., Marquart, T., and Stempels, E. “CRIRES+ detection of CO emissions lines and temperature inversions on the dayside of WASP-18b and WASP-76b.” *A&A* 672, A107 (2023)
80. Zak, J., Jones, D., Boffin, H. M. J., Beck, P. G., Klencki, J., Bodensteiner, J., Shenar, T., Van Winckel, H., Skarka, M., Arellano-Córdova, K., Viuhó, J., Sowicka, P., **Guenther, E. W.**, and **Hatzes, A.** “Everything that glitters is not gold: V1315 Cas is not a dormant black hole.” *MNRAS* 524, 5749 (2023) (2023)
81. Zhang, X., Simionescu, A., Gastaldello, F., Eckert, D., Camillini, L., Natale, R., Rossetti, M., Brunetti, G., Akamatsu, H., Botteon, A., Cassano, R., Cuciti, V., Bruno, L., Shimwell, T. W., Jones, A., Kaastra, J. S., Etori, S., Brügggen, M., de Gasperin, F., **Drabent, A.**, van Weeren, R. J., and Röttgering, H. J. A. “The Planck clusters in the LOFAR sky. III. LoTSS DR2: Dynamic states and density fluctuations of the intracluster medium.” *A&A* 672, A42 (2023)
82. Zhu, Z.-P., Lei, W.H., Malesani, D. B., Fu, S.-Y., Liu, D.-J., Xu, D., D’Avanzo, P., Agüí Fernández, J. F., Fynbo, J. P. U., Gao, X., **Nicuesa Guelbenzu, A.**, Jiang, S.-Q., Kann, D. A., **Klose, S.**, Liu, J.-Z., Liu, X., De Pasquale, M., de Ugarte Postigo, A., **Stecklum, B.**, Thöne, C., Markku V., Joonas K., Zhu, Y.-N., Li, J.-D., Gao, H., Lu, T.-H., Xiao, S., Zou, Y. C., Xin, L.-P., and Wei, J.-Y. “Optical and Near-infrared Observations of the Distant but Bright “New Year’s Burst” GRB 220101A.” *ApJ* 959, 118 (2023)