

## Refereed Publications 2024

1. Abrevaya, X. C., Odert, P., Oppezzo, O. J., Leitzinger, M., Luna, G. J. M., **Guenther, E.**, Patel, M. R., and Hanslmeier, A. “An experimental study of the biological impact of a superflare on the TRAPPIST-1 planets.” *MNRAS* 535.2 (2024): 1616–1624.
2. Ahmed, Hopkins, Ware, Gordon, Bilicki, Brown, Cluver, Gürkan, López-Sánchez, Leahy, Ahmed, U. T., Hopkins, A. M., Ware, J., Gordon, Y. A., Bilicki, M., Brown, M. J. I., Cluver, M., Gürkan, G., López-Sánchez, A. R., Leahy, D. A., Marchetti, L., Phillipps, S., Prandoni, I., Seymour, N., Taylor, E. N., and **Vardoulaki, E.** “EMU/GAMA: Radio-detected galaxies are more obscured than optically selected galaxies.” *PASA* 41: e021.
3. Alqasim, A., Grieves, N., Ros´ario, N. M., Gandolfi, D., Livingston, J. H., Sousa, S., Collins, K. A., Teske, J. K., Fridlund, M., Egger, J. A., Cabrera, J., Hellier, C., Lanza, F., Van Eylen, V., Bouchy, F., Oelkers, R. J., Srdoc, G., Shtetman, S., Günther, M., **Goffo, E.**, Wilson, T., Serrano, L. M., Brandeker, A., Wang, S. X., Heitzmann, A., Bonfanti, A., Fossati, L., Alibert, Y., Delrez, L., Sefako, R., Barros, S., Collins, K. I., Demangeon, O. D. S., Albrecht, S. H., Alonso, R., Asquier, J., Barczy, T., Barrado, D., Baumjohann, W., Beck, T., Benz, W., Billot, N., Borsato, L., Broeg, C., Bryant, E. M., Butler, R. P., Cochran, W. D., Cameron, A. Collier, Correia, A. C. M., Crane, J. D., Csizmadia, Sz, Cubillos, P. E., Davies, M. B., Daylan, T., Deleuil, M., Deline, A., Demory, B. O., Derekas, A., Edwards, B., Ehrenreich, D., Erikson, A., Essack, Z., Fortier, A., Gazeas, K., Gillon, M., Gudel, M., Hasiba, J., **Hatzes, A. P.**, Helling, Ch, Hirano, T., Howell, S. B., Hoyer, S., Isaak, K. G., Jenkins, J. M., Kanodia, S., Kiss, L. L., Korth, J., Lam, K. W. F., Laskar, J., Etangs, A. Lecavelier des, Lendl, M., Lund, M. B., Luque, R., Mann, A. W., Magrin, D., Maxted, P. F. L., Mordasini, C., Narita, N., Nascimbeni, V., Nowak, G., Olofsson, G., Osborn, H. P., Osborne, H. L. M., Osip, D., Ottensamer, R., Pagano, I., Palle, E., Peter, G., Piotto, G., Pollacco, D., Queloz, D., Ragazzoni, R., Rando, N., Rauer, H., Redfield, S., Ribas, I., Rice, M., Ricker, G. R., Rieder, M., Salmon, S., Santos, N. C., Scandariato, G., Seager, S., Segransan, D., Shporer, A., Simon, A. E., Smith, A. M. S., Stalport, M., Szabo, Gy M., Thompson, I., Twicken, J. D., Udry, S., Vanderspek, R., Van Grootel, V., Venturini, J., Villaver, E., Villaseñor, J., Viotto, V., Walter, I., Walton, N. A., Winn, J. N., and Yee, S. W. “TOI-757 b: an eccentric transiting mini-Neptune on a 17.5-d orbit.” *MNRAS* 533.1 (2024): 1–26.
4. Barlow, Kupfer, Smith, Schaffenroth, and Parker] Barlow, B. N., Kupfer, T., Smith, B. A., **Schaffenroth, V.**, and Parker, I. “Hot subdwarfs in close binaries observed from space. III. Reflection effect asymmetry induced by relativistic beaming.” *A&A* 686: A126.
5. Bruni, G., Piro, L., Yang, Y.-P., Quai, S., Zhang, B., Palazzi, E., Nicastro, L., Feruglio, C., Tripodi, R., O’Connor, B., Gardini, A., Savaglio, S., Rossi, A., **Nicuesa Guelbenzu, A. M.**, and Paladino, R.: A nebular origin for the persistent radio emission of fast radio bursts. *Nature* 632 (2024), 1014.
6. Beck, P. G., Grossmann, D. H., Steinwender, L., Schimak, L. S., Muntean, N., Vvard, M., Patton, R. A., Merc, J., Mathur, S., Garcia, R. A., Pinsonneault, M. H., Rowan, D. M., **Gaulme, P.**, Allende Prieto, C., Arellano-Córdova, K. Z., Cao, L., Corsaro, E., Creevey, O., Hambleton, K. M., Hanslmeier, A., Holl, B., Johnson, J., Mathis, S., Godoy-Rivera, D., S´imon-D´iaz, S., and Zinn, J. C. “Constraining stellar and orbital co-evolution through ensemble seismology of solar-like oscillators in binary systems. A census of oscillating red giants and dwarf stars in Gaia DR3 binaries.” *A&A* 682: A7 (2024).

7. Bernabò, L. M., Csizmadia, Sz., Smith, A. M. S., Rauer, H., **Hatzes, A., Esposito, M.**, Gandolfi, D., and Cabrera, J. “Evidence of apsidal motion and a possible co-moving companion star detected in the WASP-19 system.” *A&A* 684: A78 (2024)
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9. Campitiello, M. G., Bonafede, A., Botteon, A., Lovisari, L., Ettori, S., Brunetti, G., Gastaldello, F., Rossetti, M., Cassano, R., Ignesti, A., van Weeren, R. J., Brüggem, M., and **Hoefl, M.** “A combined LOFAR and XMM-Newton analysis of the disturbed cluster PSZ2G113.91-37.01.” *A&A* 683: A9 (2024)
10. Carleo, Ilaria, Barrágan, Oscar, Persson, Carina M., Fridlund, Malcolm, Lam, Kristine W. F., Messina, Sergio, Gandolfi, Davide, Smith, Alexis M. S., Johnson, Marshall C., Cochran, William, Osborne, Hannah L. M., Brahm, Rafael, Ciardi, David R., Collins, Karen A., Everett, Mark E., Giacalone, Steven, **Guenther, Eike W., Hatzes, Artie**, Hellier, Coel, Horner, Jonathan, Kabáth, Petr, Korth, Judith, MacQueen, Phillip, Masseron, Thomas, Murgas, Felipe, Nowak, Grzegorz, Rodriguez, Joseph E., Watkins, Cristilyn N., Wittenmyer, Rob, Zhou, George, Ziegler, Carl, Bieryla, Allyson, Boyd, Patricia T., Clark, Catherine A., Dressing, Courtney D., Eastman, Jason D., Eberhardt, Jan, Endl, Michael, Espinoza, Nestor, Fausnaugh, Michael, Guerrero, Natalia M., Henning, Thomas, Hesse, Katharine, Hobson, Melissa J., Howell, Steve B., Jordán, Andr´es, Latham, David W., Lund, Michael B., Mireles, Ismael, Narita, Norio, Tala Pinto, Marcelo, Pugh, Teznie, Quinn, Samuel N., Ricker, George, Rodriguez, David R., Rojas, Felipe I., Rose, Mark E., Rudat, Alexander, Sarkis, Paula, Savel, Arjun B., Schlecker, Martin, Schwarz, Richard P., Seager, Sara, Shporer, Avi, Smith, Jeffrey C., Stassun, Keivan G., Stockdale, Chris, Trifonov, Trifon, Vanderspek, Roland, Winn, Joshua N., and Wright, Duncan. “Mass determination of two Jupiter-sized planets orbiting slightly evolved stars: TOI-2420 b and TOI-2485 b.” *A&A* 690: A18 (2024).
11. Castro-Tirado, A.J., Gupta, R., Pandey, S.B., **Nicuesa Guelbenzu, A.**, Eikenberry, S., Ackley, K., Gerarts, A., Valeev, A.F., Jeong, S., Park, I.H., Oates, S.R., Zhang, B.-B., Sánchez-Ramírez, R., Martín-Carrillo, A., Tello, J.C., Jelinek, M., Hu, Y.-D., Cunniffe, R., Sokolov, V.V., Guziy, S., Ferrero, P., Caballero-García, M.D., Ror, A.K., Aryan, A., Castro Tirado, M.A., Fernández-García, E., Gritsevich, M., Olivares, I., Pérez-García, I., Castro Cerón, J.M., & Cepa, J.: Revealing the characteristics of the dark GRB 150309A: Dust extinguished or high-z?. *A&A* 683 (2024), A55
12. Cesaroni, R., Moscadelli, L., Caratti o Garatti, A., **Eislöffel, J.**, Fedriani, R., Neri, R., Ray, T., Sanna, A., and **Stecklum, B.** “Radio outburst from a massive (proto)star. III. Unveiling the bipolarity of the radio jet from S255IR NIRS 3.” *A&A* 683: L15 (2024)
13. Chazelas, Bruno, Ivanisenko, Yevgeniy, Lanotte, Audrey, Santos Diaz, Pablo, Genolet, Ludovic, Sordet, Michael, Hughes, Ian, Lovis, Christophe, Schmidt, Tobias M., Amate Plasencia, Manuel, Peñate Castro, Jose, Vega-Moreno, Afrodísio, Tenegi, Fabio, Simoes, Roberto, González-Hernández, Jonay I., Zapatero Osorio, Maria-Rosa, Piqueras, Javier, Belenguer Dávila, Tomás., Calvo-Ortega, Rocío., Varas González, Roberto, González Fernández, Luis Miguel, Amado, Pedro J., Kern, Jonathan, Dionies, Frank, Bauer, Svend-Marian, Önel, Hakan, Järvinen, Arto, Brynnel, Joar, F“ußlein, Christine, Bellido, Olga, Weingrill, J“org, Giannone, Domenico, Gaessler, Wolfgang, Lehmitz, Michael, Kaminski, Adrian, Stilz, Ingo, **Sigwarth, Michael**,

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14. Halbengewachs, Clemens, Kentischer, Thomas J., Baumgartner, Jörg, Fischer, Andreas, Schubert, Matthias, and **Sigwarth, Michael**. “Building large Fabry-Pérot etalons for the Visible Tunable Filter.” *Ground-based and Airborne Instrumentation for Astronomy X*. eds. Julia J. Bryant, Kentaro Motohara, and Joël R. D. Vernet, vol. 13096 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series. 2024, 1309617.
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  19. Dreizler, S., Luque, R., Ribas, I., Koseleva, V., Ruh, H. L., Nagel, E., Pozuelos, F. J., Zechmeister, M., Reiners, A., Caballero, J. A., Amado, P. J., Béjar, V. J. S., Bean, J. L., Brady, M., Cifuentes, C., Gillon, M., **Hatzes, A. P.**, Henning, Th., Kasper, D., Montes, D., Morales, J. C., Murray, C. A., Pallé, E., Quirrenbach, A., Seifahrt, A., Schweitzer, A., Stürmer, J., Stefánsson, G., and Linares, J. I. Vico. “Teegarden’s Star revisited. A nearby planetary system with at least three planets.” *A&A* 684: A117 (2024).
  20. Duchesne, S. W., Botteon, A., Koribalski, B. S., Loi, F., Rajpurohit, K., Riseley, C. J., Rudnick, L., Vernstrom, T., **Andernach, H.**, Hopkins, A. M., Kapinska, A. D., Norris, R. P., and Zafar, T. “Evolutionary Map of the Universe (EMU): A pilot search for diffuse, non-thermal radio emission in galaxy clusters with the Australian SKA Pathfinder.” *PASA* 41: e026 (2024).
  21. Dutta, Riju, Sur, Sharanya, and **Basu, Aritra**. “Probing the Morphology of Polarized Emission Induced by Fluctuation Dynamo Using Minkowski Functionals.” *ApJ* 976.2 (2024): 168.
  22. Foschini, Luigi, Dalla Barba, Benedetta, Tornikoski, Merja, **Andernach, Heinz**, Marziani, Paola, Marscher, Alan P., Jorstad, Svetlana G., Järvelä, Emilia, Antón, Sonia, and Dalla Bontà, Elena. “The Power of Relativistic Jets: A Comparative Study.” *Universe* 10.4 (2024): 156.

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27. **Fuhrmeister, B.**, Schneider, P. C., **Sperling, Th.**, France, K., Campbell-White, J., and **Eislöffel, J.** “Measurement of interstellar extinction for classical T Tauri stars using far-UV H<sub>2</sub> line fluxes.” *A&A* 692: A69 (2024) (2024).
28. Gajović, L., Adebahr, B., **Basu, A.**, Heesen, V., Brüggem, M., de Gasperin, F., Lara- Lopez, M. A., Oonk, J. B. R., Edler, H. W., Bomans, D. J., Paladino, R., Garduño, L. E., López-Cruz, O., Stein, M., Fritz, J., Piotrowska, J., and Sinha, A. “A spatially resolved radio spectral study of the galaxy M 51.” *A&A* 689: A68 (2024).
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  31. Geier, S., Heber, U., Irrgang, A., Dorsch, M., Bastian, A., Neunteufel, P., Kupfer, T., Bloemen, S., Kreuzer, S., Möller, L., Schindewolf, M., Schneider, D., Ziegerer, E., Pelisoli, I., **Schaffenroth, V.**, Barlow, B. N., Raddi, R., Geier, S. J., Reindl, N., Rauch, T., Nemeth, P., and Gänsicke, B. T. “A spectroscopic and kinematic survey of fast hot subdwarfs.” *A&A* 690: A368 (2024).
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