

## Refereed Publications 2025

1. **Andernach, H.** and Brüggem, M. “Properties of giant radio galaxies larger than 3 Mpc.” *A&A* 699: A257 (2025)
2. Antonucci, L., Vanzi, L., Zapata, A. A., Flores, M., Suárez, A., Brahm, R., Shen, T., Parra, M., Ormazábal, R., Avila, G., Kabáth, P., **Hatzes, A.**, Gajdoš, P., Skarka, M., Žak, J., Odert, P., Lipták, J., Greimel, R., and Leitzinger, M. “The evolution of PUCHEROS from a basic to a competitive tool for stellar astrophysics.” *MNRAS* 542.3: 1730–1742 (2025)
3. Barnes, Lachlan J., Hopkins, Andrew M., Rudnick, Lawrence, **Andernach, Heinz**, Cowley, Michael, Gupta, Nikhel, Norris, Ray P., Shabala, Stanislav S., and Zafar, Tayyaba. “Quantifying radio source morphology.” *PASA* 42 e105 (2025)
4. Bellotti, S., Petit, P., **Jeffers, S. V.**, Marsden, S. C., Morin, J., Vidotto, A. A., Folsom, C. P., See, V., and do Nascimento, J.-D. “A BCool survey of stellar magnetic cycles.” *A&A* 693: A269 (2025)
5. Bernabò, L. M., Csizmadia, Sz., Smith, A. M. S., Harre, J.-V., Kálmán, Sz., Cabrera, J., Rauer, H., Gandolfi, D., Pino, L., Ehrenreich, D., and **Hatzes, A.** “Characterising WASP-43b’s interior structure: Unveiling tidal decay and apsidal motion.” *A&A* 694:nA233 (2025)
6. Bracco, Andrea, Padovani, Marco, Galli, Daniele, Pezzuto, Stefania, Cipriani, Alexandre, and **Drabent, Alexander**. “Are stellar embryos in Perseus radio-synchrotron emitters?: Statistical data analysis with Herschel and LOFAR paving the way for the SKA.” *A&A* 694: A148 (2025)
7. Brienza, M., Rajpurohit, K., Churazov, E., Heywood, I., Brüggem, M., **Hoefl, M.**, Vazza, F., Bonafede, A., Botteon, A., Brunetti, G., Gastaldello, F., Khabibullin, I., Lyskova, N., Majumder, A., Röttgering, H. J. A., Shimwell, T.W., Simionescu, A., and van Weeren, R. J. “Non-thermal filaments and AGN recurrent activity in the galaxy group Nest200047: A LOFAR, uGMRT, MeerKAT, and VLA radio spectral analysis.” *A&A* 696: A239 (2025)
8. Brivio, R., Campana, S., Covino, S., Ferro, M., Gianfagna, G., Bernardini, M. G., D’Avanzo, P., Giarratana, S., Ghirlanda, G., Hu, Y.-D., Melandri, A., Nava, L., Piro, L., Rossi, A., Salafia, O. S., Salvaggio, C., Salvaterra, R., Sbarrato, T., Sbarufatti, B., Tagliaferri, G., Thakur, A. L., Tovmassian, G., Agüí Fernández, J. F., Bruni, G., Castro-Tirado, A. J., D’Elia, V., De Pasquale, M., de Ugarte Postigo, A., de Wet, S., Hartmann, D. H., **Klose, S.**, Kobayashi, S., Maiorano, E., Malesani, D. B., Marini, E., Martín-Carrillo, A., **Nicuesa Guelbenzu, A.**, Pandey, S. B., Paris, D., Pugliese, G., Rau, A., Ricci, R., Saccardi, A., Sánchez-Ramírez, R., Tanvir, N. R., Thone, C. C., and Zafar, T. “A comprehensive broadband analysis of the high-redshift GRB 240218A.” *A&A* 695: A239 (2025)
9. Bruno, L., Botteon, A., Dallacasa, D., Venturi, T., Balboni, M., **Biava, N.**, Brienza, M., Brüggem, M., Brunetti, G., de Gasperin, F., De Rubeis, E., Di Gennaro, G., Gastaldello, F., Ignesti, A., Pasini, T., Rajpurohit, K., Shulevski, A., Srikanth, K. S. L., van Weeren, R. J., and Zhang, X. “Resurging from the ashes: A spectral study of seven candidate revived radio fossils in nearby low-mass galaxy clusters.” *A&A* 704: A245 (2025)
10. Carleo, Ilaria, Nowak, Grzegorz, Murgas, Felipe, Pallé Enric, Lacedelli, Gaia, Masseron, Thomas, Wong, Emily W., Castro-González, Amadeo, Jankowski, Dawid, Eggenberger, Patrick, Jenkins, James S., Goździowski, Krzysztof, Bourrier, Vincent, Alves, Douglas R., Vines, José I., Stassun, Keivan G., Brogi, Matteo, Messina, Sergio, Clark, Catherine A., Collins, Karen A., Deeg, Hans J., Furlan, Elise, Gandolfi, Davide, González, Samuel, Geraldía, Hellier, Coel, **Hatzes, Artie P.**, Howell, Steve B., Korth, Judith, Knudstrup, Emil,

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11. **Chaturvedi, P., Goffo, E.,** Gandolfi, D., Persson, C. M., **Hatzes, A. P.,** Nowak, G., Bonfanti, A., Bieryla, A., Cochran, W. D., Collins, K. A., Fajardo-Acosta, S. B., Howell, S. B., Jenkins, J. M., Korth, J., Livingston, J., Pall'e, E., Quinn, S. N., Schwarz, R. P., Seager, S., Shporer, A., Stassun, K. G., Striegel, S., Van Eylen, V., Watkins, C. N., Winn, J. N., and Ziegler, C. "TOI-3493 b: A planet with a Neptune-like density transiting a bright G0-type star." *A&A* 697: A169 (2025)
  12. Cont, D., Nortmann, L., Lesjak, F., Yan, F., Shulyak, D., Lavail, A., Stangret, M., Pall'e, E., Amado, P. J., Caballero, J. A., **Hatzes, A.,** Henning, Th., Piskunov, N., Quirrenbach, A., Reiners, A., Ribas, I., Agüı Fernández, J. F., Akin, C., Boldt-Christmas, L., **Chaturvedi, P., Czesla, S.,** Hahlin, A., Heng, K., Kochukhov, O., Marquart, T., Molaverdikhani, K., Montes, D., Morello, G., Nagel, E., Orell-Miquel, J., Rains, A. D., Rengel, M., Schweitzer, A., Sánchez-López, A., and Seemann, U. "Retrieving day and nightside atmospheric properties of the ultra-hot Jupiter TOI-2109b: Detection of Fe and CO emission lines and evidence for inefficient heat transport." *A&A* 698: A31 (2025)
  13. Contreras Peña, Carlos, Lee, Jeong-Eun, Herczeg, Gregory, Johnstone, Doug, Abraham, Péter, Antonucci, Simone, Audard, Marc, Ashraf, Mizna, Baek, Giseon, Garatti, Alessio Caratti o., Carvalho, Adolfo, Cieza, Lucas, Cruz-Sáenz de Miera, Fernando, **Eisloffel, Jochen,** Froebrich, Dirk, Giannini, Teresa, Green, Joel, Ghosh, Arpan, Guo, Zhen, Hillenbrand, Lynne, Hodapp, Klaus, Jheonn, Hyunwook, Jose, Jessy, Kim, Young-Jun, Kóspál, Ágnes, Lee, Ho-Gyu, Lucas, Philip W., Magakian, Tigran, Nagy, Zsófia, Naylor, Tim, Ninan, Joe P., Peneva, S., Reipurth, Bo, Scholz, Alexander, Semkov, E., Sicilia-Aguilar, Aurora, Singh, Koshvendra, Siwak, Michal, Stecklum, Bringfried, Szabó, Zsófia Marianna, **Wolf, Verena,** and Yoon, Sung-Yong. "The Outbursting YSOs Catalogue (OYCAT)." *Journal of Korean Astronomical Society* 58: 209–230 (2025)
  14. Culpan, R., Dorsch, M., Pelisoli, I., **Schaffneroth, V.,** Geier, S., Heber, U., Kubátová, B., Dawson, H., Pritzkeleit, M., Bhat, A., Cabezas, M., Maryeva, O., Kubát, J., Kurpas, M., Vostretcova, E., Vos, J., Mattig, F., and Hainich, R. "A search for missing binaries: Blue horizontal-branch stars in binary systems in the inner Galactic halo." *A&A* 704: A326 (2025)
  15. Damas-Segovia, A., Beck, R., Mao, S. A., **Basu, A.,** Sridhar, S., Barr, E., Brunthaler, A., Buchner, S., Camilo, F., Cotton, W., Jacob, A. M., Kasemann, C., Klöckner, H.-R., Kramer, M., Rammala-Zitha, I., Ranchod, S., Rugel, M. R., Smirnov, O., Wagnveld, J. D., Wieching, G., and Wucknitz, O. "MeerKAT observations of the spiral galaxy NGC 2997 in the S band: Detection of high dynamo modes." *A&A* 703: A56 (2025)
  16. Dreizler, S., **Jeffers, S. V.,** Liebing, F., Gorrini, P., Haswell, C. A., Gaidos, E., Barnes, J. R., Del Sordo, F., Jones, H. R. A., Rodríguez, E., and Tsapras, Y. "RedDots: Planetary masses in the GJ 1061 system from planet-planet interaction." *A&A* 698: A114 (2025)

17. Drew, J. E., Greimel, R., **Eislöffel, J.**, Raddi, R., and Wright, N. J. “Uniformly-calibrated VPHAS+ photometry in the third quadrant of the Galactic plane.” *MNRAS*, Advance Access, (2025)
18. Egal, Auriane, Vida, Denis, Colas, François, Zanda, Brigitte, Bouley, Sylvain, Steinhausser, Asma, Vernazza, Pierre, Ferrière, Ludovic, Gattacceca, Jérôme, Birlan, Mirel, Vaubaillon, Jérémie, Antier, Karl, Anghel, Simon, Desmars, Josselin, Baillie, Kévin, Maquet, Lucie, Bouquillon, Sébastien, Malgoyre, Adrien, Jeanne, Simon, Fripon International Team, Trigo-Rodriguez, Josep Maria, Herrero, Enrique, Rowe, Jim, Smedley, Andrew R. D., King, Ashley, Sylla, Salma, Gardiol, Daniele, Barghini, Dario, Lamy, Hervé, Jehin, Emmanuel, Koschny, Detlef, Poppe, Bjorn, Jordán, Andres, Mendez, Rene A., Vieira, Katherine, Cremades, Hebe, Aoudjehane, Hasnaa Chennaoui, Benkhaldoun, Zouhair, Borovička, Jiri, Spurny, Pavel, Devillepoix, Hadrien A. R., Micheli, Marco, Farnocchia, Davide, Naidu, Shantanu, Brown, Peter, Wiegert, Paul, Sarneczky, Krisztian, Pal, András, Moskovitz, Nick, Kareta, Theodore, -Ros, Toni, Pichon, Alexis Le, Mazet-Roux, Gilles, Vergoz, Julien, McFadden, Luke, Assink, Jelle, Evers, Láslo, Krietsch, Daniela, Busemann, Henner, Maden, Colin, Eckart, Lisa Maria, Barrat, Jean-Alix, Povinec, Pavel, Sykora, Ivan, Kontul’, Ivan, Marchhart, Oscar, Martschini, Martin, Merchel, Silke, Wieser, Alexander, Gounelle, Matthieu, Pont, Sylvain, Sans-Jofre, Pierre, de Vet, Sebastiaan, Baziotis, Ioannis, Broz, Miroslav, Marsset, Michaël, Vergne, Jérôme, Hanu’s, Josef, Devog’ele, Maxime, Conversi, Luca, Ocaña, Francisco, Buzzi, Luca, Nedelcu, Dan Alin, Sonka, Adrian, Losse, Florent, Dupouy, Philippe, Korlević, Korado, Husar, Dieter, Jahn, Jost, Segon, Damir, McIntyre, Mark, **Neubert, Ralf**, Beck, Pierre, Shoher, Patrick, Lagain, Anthony, Hernandez, Olivier, Robertson, Darrel, and Jenniskens, Peter. “Catastrophic disruption of asteroid 2023 CX1 and implications for planetary defence.” *Nature Astronomy* 9.11 (2025): 1624–1637 (2025)
19. Freund, S., **Czesla, S.**, **Fuhrmeister, B.**, Predehl, P., Robrade, J., Schneider, P. C., and Schmitt, J. H. M. M. “The stellar corona-chromosphere connection: A comprehensive study of X-ray and Ca II IRT fluxes from eROSITA and Gaia.” *A&A* 697: A230 (2025)
20. Fuentes, Alex, Vanzi, Leonardo, Antonucci, Luca, Brahm, Rafael, **Hatzes, Artie**, and Kab’ath, Petr. “Modeling the Environmental Drift of High Resolution Spectrographs to Enhance the RV Precision.” *PASP* 137.10 105003 (2025):
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22. **Fuhrmeister, B.**, Schneider, P. C., **Eislöffel, J.**, Froebrich, D., Armeni, A., Frasca, A., Mauco, K., Stelzer, B., and Manara, C. F. “PENELLOPE: VIII. Veiling and extinction variations of V505 Ori.” *A&A* 704: A229 (2025)
23. Gajović, L., Heesen, V., Brüggem, M., Edler, H. W., Adebahr, B., Pasini, T., de Gasperin, F., **Basu, A.**, Wezgowiec, M., Horellou, C., Bomans, D. J., D’enes, H., and Vohl, D. “The low-frequency flattening of the radio spectrum of giant H II regions in M 101.” *A&A* 695: A41 (2025)
24. Gozaliasl, Ghassem, Yang, Lilan, Kartaltepe, Jeyhan S., Toni, Greta, Abedini, Fatemeh, Akins, Hollis B., Allen, Natalie, Arango-Toro, Rafael C., Babul, Arif, Casey, Caitlin M., Chartab, Nima, Drakos, Nicole E., Faisst, Andreas L., Finoguenov, Alexis, Flayhart, Carter, Franco, Maximilien, Ghaffari, Zohreh, Leroy, Gavin, Haghjoo, Aryana, Haghi, Hosein,

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31. **Jeffers, S. V.**, Barnes, J. R., Schöfer, P., Reffert, S., Béjar, V. J. S., Quirrenbach, A., A., Shan, Y., Zapatero Osorio, M. R., **Fuhrmeister, B.**, Amado, P. J., Caballero, J. A., Ribas, I., Guill'en, C. Cardona, Del Sordo, F., Fernández, M., García-López, A., Guijarro, **A., Hatzes, A. P.**, Lafarga, M., Lodieu, N., Kürster, M., Molaverdikhani, K., Montes, D., and Morales, J. C. “The CARMENES search for exoplanets around M dwarfs: Understanding the wavelength dependence of radial velocity measurements.” *A&A* 696: A27 (2025)
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  34. Kaminski, A., Sabotta, S., Kemmer, J., Chaturvedi, P., Burn, R., Morales, J. C., Caballero, J. A., Ribas, I., Reiners, A., Quirrenbach, A., Amado, P. J., Béjar, V. J. S., Dreizler, S., Guenther, E. W., **Hatzes, A. P.**, Henning, Th., Kürster, M., Montes, D., Nagel, E., Pallé, E., Pinter, V., Reffert, S., Schlecker, M., Shan, Y., Trifonov, T., Osorio, M. R. Zapatero, and Zechmeister, M. “The CARMENES search for exoplanets around M dwarfs: Occurrence rates of Earth-like planets around very low-mass stars.” *A&A* 696: A101 (2025)
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