

- 1 \*Thyagarajan, N.; Rajaram, N.; Samuel, J.  
"Invariants in copolar interferometry: an Abelian Gauge Theory".  
Phys. Rev. D,  
105, 043019 Published  
(2022). [\(O\)](https://doi.org/10.1103/PhysRevD.105.043019)
- 
- 2 \*Samuel, J.; Nityananda, R.; Thyagarajan, N.  
"Invariants in Polarimetric Interferometry: a non-Abelian Gauge Theory".  
Phys. Rev. Lett.,  
128, 091101 Published  
(2022). [\(O\)](https://doi.org/10.1103/PhysRevLett.128.091101)
- 
- 3 \*Smart, K.; Shaw, R.; Bourne, M.; Death, M.; Granet, C.; Kot, J.  
"Manufacture and Test of a Simultaneous S/X Feed System for a Satellite Ground Station". In:  
*Asia Pacific Microwave Conference, Brisbane, Australia, 28 November-1 December 2021,*  
Published  
(2022). [\(O\)](https://doi.org/10.1109/APMC52720.2021.9661605)
- 
- 4 \*James, C. W.; Prochaska, J.X.; Macquart, J. -P.; North-Hickey, F. O.; Bannister, K. W.; Dunning, A.  
"The z-DM distribution of fast radio bursts".  
MNRAS,  
509, 4775-4802 Published  
(2022). [\(A, P\)](https://doi.org/10.1093/mnras/stab3051)
- 
- 5 \*James, C. W.; Prochaska, J. X.; Macquart, J. P.; North-Hickey, F. O.; Bannister, K. W.; Dunning, A.  
"The fast radio burst population evolves, consistent with the star-formation rate".  
MNRAS,  
510, L18-L23 Published  
(2022). [\(O\)](https://doi.org/10.1093/mnrasl/slab117)
-

- 6 \*Bhandari, S.; Heintz, K. E.; Aggarwal, K.; Marnoch, L.; Day, C.; Sydnor, J.; Burke-Spolaor, S.; Law, C. J.; Prochaska, J. X.; Tejos, N. and 16 coauthors  
 "Characterizing the Fast Radio Burst Host Galaxy Population and its Connection to Transients in the Local and Extragalactic Universe".  
 AJ,  
 163, 69 Published  
 (2022). [\(A, C\)](https://doi.org/10.3847/1538-3881/ac3aec)
- 
- 7 \*Tremblay, C.; Price, D. C.; Tingay, S. J.  
 "A search for technosignatures toward the Galactic Centre at 150 MHz".  
 PASA,  
 39, e008 Published  
 (2022). [\(O\)](https://doi.org/10.1017/pasa.2022.5)
- 
- 8 \*Sasaki, M.; Knies, J.; Haberl, F.; Maitra, C.; Kerp, J.; Bykov, A. M.; Dennerl, K.; Filipović, M. D.; Freyberg, M.; Koribalski, B. S.; and 2 coauthors  
 "First studies of the diffuse X-ray emission in the Large Magellanic Cloud with eROSITA".  
 A&A,  
 661, A37 Published  
 (2022). [\(A\)](https://doi.org/10.1051/0004-6361/202141054)
- 
- 9 \*Veronica, A.; Su, Y.; Biffi, V.; Reiprich, T. H.; Pacaud, F.; Nulsen, P. E. J.; Kraft, R. P.; Sanders, J. S.; Bogdan, A.; Kara, M.; and 11 coauthors  
 "The eROSITA view of the Abell 3391/95 field: The Northern Clump. The largest infalling structure in the longest known gas filament observed with eROSITA, XMM-Newton, and Chandra".  
 A&A,  
 661, A46 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202141415)
- 
- 10 \*Zovaro, H. R. M.; Riseley, C. J.; Taylor, P.; Nesvadba, N. P. H.; Galvin, T. J.; Malik, U.; Kewley, L. J  
 "Revisiting the giant radio galaxy ESO 422-G028 - I. Discovery of a neutral inflow and recent star formation in a restarted giant".  
 MNRAS,  
 509, 4997-5017 Published  
 (2022). [\(O\)](https://doi.org/10.1093/mnras/stab3140)

- 11 \*Venturi, T.; Giancintucci, S.; Merluzzi, P.; Bardelli, S.; Busarello, G.; Dallacasa, D.; Sikhosana, S. P.; Marvil, J.; Smirnov, P.; Bourdin, I and 22 coauthors  
 "Radio footprints of a minor merger in the Shapley Supercluster: From supercluster down to galactic scales".  
 A&A,  
 660, A81 Published  
 (2022). [\(A\)](https://doi.org/10.1051/0004-6361/202142048)
- 
- 12 \*Tang, H. Scaife, A. M. M.; Wong, O. I.; Shabala, S. S.  
 "Radio Galaxy Zoo: giant radio galaxy classification using multidomain deep learning".  
 MNRAS,  
 510, 4504-4524 Published  
 (2022). [\(O\)](https://doi.org/10.1093/mnras/stab3553)
- 
- 13 \*Ananna, T. T.; Weigel, A. K.; Trakhtenbrot, B.; Koss, M. J.; Urry, C. M; Ricci, C.; Hickox, R.; Treister, E.; Bauer, F. E.; Ueda, Y.; and 12 coauthors  
 "BASS. XXX. Distribution Functions of DR2 Eddington Ratios, Black Hole Masses, and X-Ray Luminosities".  
 ApJS,  
 261, 9 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4365/ac5b64)
- 
- 14 \*Jackson, N.; Badole, S.; Morgan, J.; Chhetri, R.; Prūsis, K.; Nikolajevs, A.; Morabito, L.; Brentjens, M.; Sweijen, F.; Iacobelli, M.; and 62 coauthors  
 "Sub-arcsecond imaging with the International LOFAR Telescope II. Completion of the LOFAR Long-Baseline Calibrator Survey".  
 A&A,  
 658, A2 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202140756)
- 
- 15 \*Pingel, N. M.; Dempsey, J.; McClure-Giffiths, N. M.; Dickey, J. M.; Jameson, K. E.; Arce, H.; Anglada, G.; Bland-Hawthorn, J.; Breen, S. L.; Buckland-Willis, F.; and 46 coauthors  
 "GASKAP-HI Pilot Survey Science I: ASKAP Zoom Observations of HI Emission in the Small Magellanic Cloud".  
 PASA,  
 39, e005 Published Online  
 (2022). [\(A, P\)](https://doi.org/10.1017/pasa.2021.59)

- 16 \*Sharda, P.; Menon, S. H.; Federrath, C.; Krumholz, M. R.; Beattie, J. R.; Jameson, K. E.; Tokuda, K.; Burkhart, B.; Crocker, R. M.; Law, C. J.; and 6 coauthors  
"First extragalactic measurement of the turbulence driving parameter: ALMA observations of the star-forming region N159E in the Large Magellanic Cloud".  
MNRAS,  
509, 2180–2193  
Published  
(2022). <https://doi.org/10.1093/mnras/stab3048> (O)
- 
- 17 \*Kadler, M.; Bach, U.; Berge, D.; Buson, S.; Dorner, D.; Edwards, P. G.; Eppel, F.; Giroletti, M.; Gokus, A.; Hervet, O.; and 17 coauthors  
"TELAMON: Effelsberg Monitoring of AGN Jets with Very-High-Energy Astroparticle Emissions". In:  
*Proceedings of the 37th International Cosmic Ray Conference (ICRC2021)*, Berlin, Germany, 12-23 July 2021,  
Published Online  
(2022). (O)
- 
- 18 \*Filipović, M. D.; Payne, J. L.; Alsaberi, R. Z. E.; Norris, R. P.; Macgregor, P. J.; Rudnick, L.; Koribalski, B. S.; Leahy, D.; Ducci, L.; Kothes, R.; and 40 coauthors  
"Mysterious odd radio circle near the large magellanic cloud - an intergalactic supernova remnant?".  
MNRAS,  
512, 265-284  
Published  
(2022). <https://doi.org/10.1093/mnras/stac210> (A, C)
- 
- 19 \*Mahony, E. K.; Allison, J. R.; Sadler, E. M.; Ellison, S. L.; Mao, S. A.; Morganti, R.; Moss, V. A.; Seta, A.; Tadhunter, C. N.; Weng, S.; and 8 coauthors  
"HI absorption at  $z \sim 0.7$  against the lobe of the powerful radio galaxy PKS 0409-75".  
MNRAS,  
509, 1690-1702  
Published  
(2022). <https://doi.org/10.1093/mnras/stab3041> (A)
- 
- 20 \*Allison, J. R.; Sadler, E. M.; Amaral, A. D.; An, T.; Curran, S. J.; Darling, J.; Edge, A. C.; Ellison, S. L.; Emig, K. L.; Gaensler, B. M.; and 30 coauthors  
"The First Large Absorption Survey in HI (FLASH): I. Science Goals and Survey Design."  
PASA,  
39, e010  
Published  
(2022). <https://doi.org/10.1017/pasa.2022.3> (A)

- 21 \*Weng, S.; Sadler, E. M.; Foster, C.; Perouz, C.; Mahony, E. K.; Allison, J. R.; Moss, V. A.; Su, R.; Whiting, M. T.; Yoon, H.

"Observations of cold extragalactic gas clouds at  $z=0.45$  towards PKS 1610-771".

MNRAS,

512, 3638-3650

Published

(2022). <https://doi.org/10.1093/mnras/stac747>

(O)

---

- 22 \*Johnston, S.; Parthasarathy, A.; Main, R. A.; Ridley, J. P.; Koribalski, B. S.; Bailes, M.; Buchner, S. J.; Geyer, M.; Karastergiou, A.; Keith, M. J.; and 6 coauthors

"The Thousand-Pulsar-Array programme on MeerKAT VII: Polarisation properties of pulsars in the Magellanic Clouds".

MNRAS,

509, 5209-5217

Published

(2022). <https://doi.org/10.1093/mnras/stab3360>

(O)

---

- 23 \*Kumar, P.; Shannon, R. M.; Lower, M. E.; Bhandari, S.; Deller, A. T.; Flynn, C.; Keane, E. F.

"Circularly polarized radio emission from the repeating fast radio burst source FRB 20201124A".

MNRAS,

512, 3400–3413

Published

(2022). <https://doi.org/10.1093/mnras/stac683>

(A, P)

---

- 24 \*Józsa, G. I. G.; Jarrett, T. H.; Cluver, M.; Wong, O. I.; Havenga, O.; Kamphuis, P.; Maccagni, F. M.; Ramaila, A. J. T.; Serra, P.; Smirnov, O. M.; and 6 coauthors

"The Detection of a Massive Chain of Dark H I Clouds in the GAMA G23 Field".

ApJ,

926, 167

Published

(2022). <https://doi.org/10.3847/1538-4357/ac402b>

(O)

---

- 25 \*Duchesne, S. W.; Johnston-Hollitt, M.; Riseley, C. J.; Bartalucci, I.; Keel, S. R.

"The merging galaxy cluster Abell 3266 at low radio frequencies".

MNRAS,

511, 3525-3535

Published

(2022). <https://doi.org/10.1093/mnras/stac335>

(A)

---

26 Li, B.; Zhang, Y.; Liu, R. -Y.; Wang, X. -Y.

"Prospect of Detecting X-Ray Halos Around Middle-Aged Pulsars with eROSITA".

MNRAS,

513, 2884-2892

Published

(2022). <https://doi.org/10.1093/mnras/stac711>

(P)

27 \*Heald, G. H.; Heesen, V.; Sridhar, S. S.; Beck, R.; Domans, D. J.; Brüggen, M.; Chyží, K. T.; Damas-Segovia, A.; Dettmar, R. -J.; Englisch, J.; and 15 coauthors

"CHANG-ES XXIII: Influence of a galactic wind in NGC 5775".

MNRAS,

509, 658-684

Published

(2022). <https://doi.org/10.1093/mnras/stab2804>

(O)

28 \*McCarthy, T.; Orosz, G.; Ellingsen, S.; Breen, S.; Voronkov, M.; Burns, R.; Olech, M.; Yonekura, Y.; Hirota, T.; Hyland, L.; and 1 coauthor

"Molecular line search towards the flaring 6.7-GHz methanol masers of G24.33+0.13 and G 359.62–0.24: rare maser transitions detected".

MNRAS,

509, 1681-1689

Published

(2022). <https://doi.org/10.1093/mnras/stab3040>

(C)

29 \*Pfeffer, J. L.; Bekki, K.; Forbes, D. A.; Couch, W. J.; Koribalski, B.

"Using the EAGLE simulations to elucidate the origin of disc surface brightness profile breaks as a function of mass and environment".

MNRAS,

509, 261-271

Published

(2022). <https://doi.org/10.1093/mnras/stab2934>

(O)

30 \*Heywood, I.; Jarvis, M. J.; Hale, C. L.; Whittam, I. H.; Bester, H. L.; Hugo, B.; Kenyon, J. S.; Prescott, M.; Smirnov, O. M.; Tasse, C.; and 16 coauthors

"MIGHTEE: Total intensity radio continuum imaging and the COSMOS / XMM-LSS Early Science fields".

MNRAS,

509, 2150–2168

Published

(2022). <https://doi.org/10.1093/mnras/stab3021>

(O)

- 31 \*Norris, R. P.; Collier, J. D.; Crocker, R. M.; Heywood, I.; Macgregor, P.; Rudnick, L.; Shabala, S.; Andernach, H.; da Cunha, E.; English, J.; and 7 coauthors  
 "MeerKAT uncovers the physics of an odd radio circle".  
 MNRAS,  
 513, 1300-1316 Published  
 (2022). [\(O\)](https://doi.org/10.1093/mnras/stac701)
- 
- 32 \*Dickey, J. M.; Dempsey, J. M.; Pingle, N. M.; McClure-Griffiths, N. M.; Jameson, K.; Dawson, J. R.; Dénes, H.; Clark, S. E.; Leahy, D.; Lee, M. -Y.; and 4 coauthors  
 "GASKAP Pilot Survey Science. II. ASKAP Zoom Observations of Galactic 21 cm Absorption".  
 ApJ,  
 926, 186 Published  
 (2022). [\(A\)](https://doi.org/10.3847/1538-4357/ac3a89)
- 
- 33 \*Thyagarajan, N.; Carilli, C. L.  
 "A geometric view of closure phases in interferometry".  
 PASA,  
 39, e014 Published  
 (2022). [\(O\)](https://doi.org/10.1017/pasa.2022.6)
- 
- 34 \*Wang, S.; Wang, J.; For, B. -Q.; Lee, B.; Reynolds, T. N.; Lin, X; Staveley-Smith, L.; Shao, L.; Wong, O. I.; Catinella, B.; and 14 coauthors  
 "WALLABY Pre-pilot Survey: The Effects of Tidal Interaction on Radial Distribution of Color in Galaxies of the Eridanus Supergroup".  
 ApJ,  
 927, 66 Published  
 (2022). [\(A\)](https://doi.org/10.3847/1538-4357/ac4270)
- 
- 35 \*Juneau, S.; Goulding, A. D.; Banfield, J.; Bianchi, S.; Duc, P. -A.; Ho, I. -T.; Dopita, M. A.; Scharwächter, J.; Bauer, F. E.; Groves, B.; and 13 coauthors  
 "The Black Hole-Galaxy Connection: Interplay between Feedback, Obscuration, and Host Galaxy Substructure".  
 ApJ,  
 925, 203 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac425f)
-

- 36 \*Ighina, L.; Leung, J. K.; Broderick, J. W.; Drouart, G.; Seymour, N.; Belladitta, S.; Caccianiga, A.; Lenc, E.; Moretti, A.; Tao, A.; and 12 coauthors  
"Constraining the Radio Properties of the z=6.44 QSO VIK J2318-3113".  
  
A&A,  
663, A73 Published  
(2022). [\(A\)](https://doi.org/10.1051/0004-6361/202142733)
- 
- 37 \*Carilli, C. L.; Thyagarajan, N.  
  
"Hybrid mapping of the Black Hole Shadow in M87".  
  
ApJ,  
924, 125 Published  
(2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac3cba)
- 
- 38 \*Tremblay, C. D.; Bourke, T. L.; Green, J. A.; Dickey, J. M.; Wong, O. I.; Galvin, T. J.  
  
"A low-frequency pilot survey of southern H II regions in the vela constellation".  
  
MNRAS,  
510, 593-610 Published  
(2022). [\(A\)](https://doi.org/10.1093/mnras/stab3421)
- 
- 39 \*Keel, W. C.; Tate, J.; Wong, I. O.; Banfield, J. K.; Lintott, C. J.; Masters, K. L.; Simmons, B. D.; Scarlata, C.; Cardamone, C.; Smethurst, R.; and 6 coauthors  
"Gems of the Galaxy Zoos-A Wide-ranging Hubble Space Telescope Gap-filler Program".  
  
AJ,  
163, 150 Published  
(2022). [\(O\)](https://doi.org/10.3847/1538-3881/ac517d)
- 
- 40 \*Dempsey, J.; McClure-Griffiths, N. M.; Murray, C.; Dickey, J. M.; Pingel, N. M.; Jameson, K.; Dénes, H.; van Loon, J. T.; Leahy, D.; Lee, M. -Y.; and 7 others  
"GASKAP-HI Pilot Survey Science III: An unbiased view of cold gas in the Small Magellanic Cloud".  
  
PASA,  
39, e034 Published  
(2022). [\(A\)](https://doi.org/10.1017/pasa.2022.18)
-

- 41 \*Livingston, J. D.; McClure-Griffiths, N. M.; Mao, S. A.; Ma, Y. K.; Gaensler, B. M.; Heald, G.; Seta, A.

"A radio polarization study of magnetic fields in the Small Magellanic Cloud".

MNRAS,

510, 260-275

Published

(2022). <https://doi.org/10.1093/mnras/stab3375>

(C)

---

- 42 Miles, M. T.; Shannon, R. M.; Bailes, M.; Reardon, D. J.; Buchner, S.; Middleton, H.; Spiewak, R.

"Mode changing in J1909 – 3744: the most precisely timed pulsar".

MNRAS,

510, 5908-5915

Published

(2022). <https://doi.org/10.1093/mnras/stab3549>

(P)

---

- 43 \*Reynolds, T. N.; Catinella, B.; Cortese, L.; Westmeier, T.; Meurer, G. R.; Shao, L.; Obreschkow, D.; Román, J.; Verdes-Montenegro, L Deg, N.; and 18 coauthors

"WALLABY Pilot Survey: HI gas disc truncation and star formation of galaxies falling into the Hydra I cluster".

MNRAS,

510, 1716-1732

Published

(2022). <https://doi.org/10.1093/mnras/stab3522>

(A)

---

- 44 Dichiara, S.; Troja, E.; Lipunov, V.; Ricci, R.; Oates, S. R.; Butler, N. R.; Liuzzo, E.; Ryan, G.; O'Connor, B.; Cenko, S. B.; and 12 coauthors

"The early afterglow of GRB 190829A".

MNRAS,

512, 2337–2349

Published

(2022). <https://doi.org/10.1093/mnras/stac454>

(C)

---

- 45 Pintaldi, S.; Stewart, A.; O'Brien, A.; Kaplan, D.; Murphy, T.

"A scalable transient detection pipeline for the Australian SKA Pathfinder VAST survey". In:

*Proceedings of Astronomical Data Analysis Software and Systems XXX*, Online Meeting, 8-12 November 2020,

532, 333

Published Online

(2022). (A)

---

- 46 \*Dobie, D.; Stewart, A. Hotokezaka, K.; Murphy, T.; Kaplan, D. L.; Buckley, D. A. H.; Cooke, J.; Ho, A. Y. Q.; Lenc, E.; Leung, J. K. and 6 coauthors  
"A comprehensive search for the radio counterpart of GW190814 with the Australian Square Kilometre Array Pathfinder".  
MNRAS,  
510, 3794–3805 Published  
(2022). [\(A\)](https://doi.org/10.1093/mnras/stab3628)
- 
- 47 \*Xue, X.; Xia, Z. -Q.; Zhu, X. ; Zhao, Y.; Shu, J.; Yuan, Q.; Bhat, N. D. R.; Cameron, A. D.; Dai, S.; Feng, Y.; and 13 coauthors  
"High-precision search for dark photon dark matter with the Parkes Pulsar Timing Array".  
Phys. Rev. Res.,  
4, L012022 Published  
(2022). [\(P\)](https://doi.org/10.1103/PhysRevResearch.4.L012022)
- 
- 48 \*Corbet, R. H. D.; Chomiuk, L.; Coley, J. B.; Dubus, G.; Edwards, P. G.; Islam, N.; McBride, V. A.; Stevens, J.; Strader, J.; Swihart, S. J.; and 1 coauthor  
"Gamma-Ray Eclipses and Orbital Modulation Transitions in the Candidate Redback 4FGL J1702.7-5655".  
ApJ,  
935, 2 Published  
(2022). [\(C\)](https://doi.org/10.3847/1538-4357/ac6fe2)
- 
- 49 Li, C. J.; Chu, Y.-H.; Chuang, C. -Y.; Li, G. -H.;  
"The Shellless Supernova Remnant B0532-67.5 in the Large Magellanic Cloud".  
AJ,  
163, 30 Published  
(2022). [\(A\)](https://doi.org/10.3847/1538-3881/ac3666)
- 
- 50 Rejep, R.; Wang, N.; Yan, W. M.; Wen, Z. G.  
"Nulling and subpulse drifting in PSR J1727-2739".  
MNRAS,  
509, 2507-2516 Published  
(2022). [\(P\)](https://doi.org/10.1093/mnras/stab3063)

- 51 Barnier, S.; Petrucci, P. -O.; Ferreira, J.; Marcel, G.; Belmont, R.; Clavel, M.; Corbel, S.; Coriat, M.; Espinasse, M.; Henri, G.; and 2 coauthors  
 "Clues on jet behavior from simultaneous radio-X-ray fits of GX 339-4".  
 A&A,  
 657, A11 Published  
 (2022). [\(C\)](https://doi.org/10.1051/0004-6361/202141182)
- 
- 52 \*Kabanovic, S.; Schneider, N.; Ossenkopf-Okada, V.; Falasca, F.; Güsten, R. ; Stutzki, J.; Simon, R.; Buchbender, C.; Anderson, L.; Bonne, L.; and 12 coauthors  
 "Self-absorption in [CII],  $^{12}\text{CO}$ , and HI in RCW120. Building up a geometrical and physical model of the region".  
 A&A,  
 659, A36 Published  
 (2022). [\(C, P\)](https://doi.org/10.1051/0004-6361/202142575)
- 
- 53 \*Jacob, A. M.; Menten, K. M.; Wyrowski, F.; Winkel, B.; Neufeld, D. A.; Koribalski, B. S.  
 "ArH+ and H2O+ absorption towards luminous galaxies".  
 A&A,  
 659, A152 Published  
 (2022). [\(C\)](https://doi.org/10.1051/0004-6361/202142544)
- 
- 54 \*Rajpurohit, K.; Hoeft, M.; Wittor, D.; van Weeren, R. J.; Vazza, F.; Rudnick, L.; Rajpurohit, S.; Forman, W. R.; Riseley, C. J.; Brienza, M. and 13 co authors  
 "Turbulent magnetic fields in the merging galaxy cluster MACS J0717.5+3745".  
 A&A,  
 657, A2 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202142340)
- 
- 55 Castillo, A.; Martin-Camalich, J.; Terol-Calvo, J.; Blas, D.; Caputo, A.; Tanausú Génova Santos, R.; Sberna, L.; Peel, M.; Rubiño-Martín, J. A.;  
 "Searching for dark-matter waves with PPTA and QUIJOTE pulsar polarimetry".  
 JCAP,  
 2022, 014 Published  
 (2022). [\(P\)](https://doi.org/10.1088/1475-7516/2022/06/014)

- 56 \*Hutschenreuter, S.; Anderson, C. S.; Betti, S.; Bower, G. C.; Brown, J. -A.; Brüggen, M.; Carretti, E.; Clarke, T.; Clegg, A.; Costa, A.; and 27 coauthors  
"The Galactic Faraday rotation sky 2020".  
  
A&A,  
657, A43 Published  
(2022). [\(C\)](https://doi.org/10.1051/0004-6361/202140486)
- 
- 57 Giulietti, M.; Massardi, M.; Lapi, A.; Bonato, M.; Enia, A. F. M.; Negrello, M.; D'Amato, Q.; Behiri, M.; De Zotti, G.  
"The far-infrared/radio correlation for a sample of strongly lensed dusty star-forming galaxies detected by Herschel".  
  
MNRAS,  
511, 1408-1419 Published  
(2022). [\(C\)](https://doi.org/10.1093/mnras/stac145)
- 
- 58 \*Dawson, J. R.; Hobbs, G.; Gao, Y.; Camtepe, S.; Pieprzyk, J.; Feng, Y.; Tranfa, L.; Bradbury, S.; Zhu, W.; Li, D.  
"Physical publicly verifiable randomness from pulsars".  
  
Astron. Comput.,  
38, 100549 Published  
(2022). [\(P\)](https://doi.org/10.1016/j.ascom.2022.100549)
- 
- 59 \*Pfefer, J.; Bekki, K.; Couch, W. J.; Koribalski, B. S.; Forbes, D. A.  
"The age gradients of galaxies in EAGLE: outside-in quenching as the origin of young bulges in cluster galaxies".  
  
MNRAS,  
511, 1072-1084 Published  
(2022). [\(O\)](https://doi.org/10.1093/mnras/stac074)
- 
- 60 \*Antoniadis, J.; Arzoumanian, Z.; Babak, S.; Bailes, M.; Bak Nielsen, A. -S.; Baker, P. T.; Bassa, C. G.; Bécsy, B.; Berthureau, A.; Bonetti, M. and 116 coauthors  
"The International Pulsar Timing Array second data release: Search for an isotropic Gravitational Wave Background".  
  
MNRAS,  
510, 4873-4887 Published  
(2022). [\(P\)](https://doi.org/10.1093/mnras/stab3418)
-

- 61 \*Abdurashidova, Z.; Aguirre, J. E.; Alexander, P.; Ali, Z .S.; Balfour, Y.; Barkana, R.; Beardsley, A. P.; Bernardi, G.; Billings, T. S.; Bowman, J. D.; and 73 coauthors  
"HERA Phase I Limits on the Cosmic 21 cm Signal: Constraints on Astrophysics and Cosmology during the Epoch of Reionization".  
ApJ,  
924, 51 Published  
(2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac2ffc)
- 
- 62 \*Lower, M. E.; Shannon, R. M.; Kumar, P.  
"Parkes ultra-wideband observations of SGR 1935+2154 during recent epochs of high activity".  
The Astronomers Telegram,  
#15172, Published  
(2022). (P)
- 
- 63 Ryder, S. D.; Kundu, E.; Marnoch, L.; Alsaberi, R. Z. E.; Filipovic, M. D.; Anderson, G.; Stockdale, C.; Maeda, K.; Renaud, M.; Kotak, R.  
"Radio Observations of SN 2022aa".  
The Astronomer's Telegram,  
#15187, Published  
(2022). (C)
- 
- 64 \*Bonnassieux, E.; Sweijen, F.; Brienza, M.; Rajpurohit, K.; Riseley, C. J. Bonafede, A.; Jackson, N.; Morabito, L. K.; Brunetti, G.; Harwood, J.; and 4 coauthors  
"Spectral analysis of spatially resolved 3C295 (sub-arcsecond resolution) with the International LOFAR Telescope".  
A&A,  
658, A10 Published  
(2022). [\(O\)](https://doi.org/10.1051/0004-6361/202141731)
- 
- 65 \*Rioja, M. J.; Dodson, R.  
"Sub-kilometre scale ionospheric studies at the SKA-Low site, using MWA extended baselines".  
J. Astron. Telesc.,  
8, 011012 Published  
(2022). [\(O\)](https://doi.org/10.1111/1.JATIS.8.1.011012)

- 66 \*Madarasingha, C.; Muramudalige, S. R.; Jourjon, G.; Jayasumana, A.; Thilakarathna, K.

"VideoTrain++: GAN-Based Adaptive Framework for Synthetic Video Traffic Generation".

Comput.,

206, 108785

Published

(2022). <https://doi.org/10.1016/j.comnet.2022.108785>

(O)

---

- 67 Bloot, S.; Callingham, J. R.; Marcote, B.

"Radio modelling of the brightest and most luminous non-thermal colliding-wind binary Apep".

MNRAS,

509, 475-488

Published

(2022). <https://doi.org/10.1093/mnras/stab2976>

(C)

---

- 68 \*Tian, J.; Anderson, G. E.; Hancock, P. J.; Miller-Jones, J. C. A.; Sokolowski, M.; Rowlinson, A.; Williams, A.; Morgan, J.; Hurley-Walker, N.; Kaplan, D. L.; and 6 coauthors

"Early-time searches for coherent radio emission from short GRBs with the Murchison Widefield Array".

PASA,

39, e003

Published

(2022). <https://doi.org/10.1017/pasa.2021.58>

(O)

---

- 69 \*Hurley-Walker, N.; Zhang, X.; Bahramian, A.; McSweeney, S. J.; O'Doherty, T. N.; Hancock, P. J.; Morgan, J. S.; Anderson, G. E.; Heald, G. H.; Galvin, T. J.

"A radio transient with unusually slow periodic emission".

Nature,

601, 526-530

Published

(2022). <https://doi.org/10.1038/s41586-021-04272-x>

(O)

---

- 70 \*Storer, D. ; Dillon, J. S.; Jacobs, D. C.; Morales, M. F.; Hazelton, B. J.; Ewall-Wice, A.; Abdurashidova, Z.; Aguirre, J. E.; Alexander, P.; Ali, Z. S.; and 68 coauthors

"Automated Detection of Antenna Malfunctions in Large-N Interferometers: A Case Study With the Hydrogen Epoch of Reionization Array".

Radio Sci.,

57, e07376

Published

(2022). <https://doi.org/10.1029/2021RS007376>

(O)

---

- 71 \*Ho, A. Y. Q.; Margalit, B.; Bremer, M.; Perley, D. A.; Yao, Y.; Dobie, D.; Kaplan, D. L.; O'Brien, A. Petitpas, G.; Zic, A.
- "Luminous Millimeter, Radio, and X-Ray Emission from ZTF 20acigmel (AT 2020xnd)".
- ApJ,  
932, 116  
(2022). <https://doi.org/10.3847/1538-4357/ac4e97> Published (C)
- 
- 72 \*Loi, F.; Murgia, M.; Govoni, F.; Anderson, C.; Heald, G.; Kleiner, D.; Lenc, E.; Vacca, V.; Maccagni, F. M.; Dettmar, R. J.
- "A depolarizing H I tidal tail in the western lobe of Fornax A".
- A&A,  
660, A48  
(2022). <https://doi.org/10.1051/0004-6361/202142879> Published (A)
- 
- 73 Sengupta, A.; Keel, W. C.; Morrison, G.; Windhorst, R. A.; Miller N.; Smith B.
- "The Preprocessing of Galaxies in the Early Stages of Cluster Formation in Abell 1882 at z = 0.139".
- ApJS,  
258, 32  
(2022). <https://doi.org/10.3847/1538-4365/ac3761> Published (A)
- 
- 74 \*Adebahr, B.; Schulz, R.; Dijkema, T. J.; Moss, V. A.; Offringa, A. R.; Kutkin, A.; van der Hulst, J. M.; Frank, B. S.; Vilchez, N. P. E.; Verstappen, J.; and 26 coauthors
- "Apercal-The Apertif calibration pipeline".
- Astron. Comput.,  
38, 100514  
(2022). <https://doi.org/10.1016/j.ascom.2021.100514> Published (O)
- 
- 75 \*Bright, J. S.; Margutti, R.; Matthews, D.; Brethauer, D.; Coppejans, D.; Wieringa, M. H.; Metzger, B. D.; DeMarchi, L.; Laskar, T.; Romero, C.; and 18 coauthors
- "Radio and X-Ray Observations of the Luminous Fast Blue Optical Transient AT 2020xnd".
- ApJ,  
926, 112  
(2022). <https://doi.org/10.3847/1538-4357/ac4506> Published (C)

- 76 Hisano, S.; Crawford, F.; Bonidie, V.; Alam, M. F.; Takahashi, K.; Lorimer, D. R.; McLaughlin, M. M.; Perera, B. B. P.  
"A Parkes "Murriyang" Search for Pulsars and Fast Transients in the Large Magellanic Cloud".  
ApJ,  
928, 161 Published  
(2022). [\(P\)](https://doi.org/10.3847/1538-4357/ac5802)
- 
- 77 \*Chen, S.; Stevens, J. B.; Edwards, P. G.; Laor, A.; Gu, M.; Berton, M.; Järvelä, E.; Kharb, P.; Behar, E.; Su, R.  
"Radio spectra of narrow-line Seyfert 1 galaxies observed with Australia Telescope Compact Array and Very Large Array Sky Survey"  
MNRAS,  
512, 471-489 Published  
(2022). [\(C\)](https://doi.org/10.1093/mnras/stac530)
- 
- 78 Zhi, Q. J.; Xu, X.; Shang, L. H.; Qiao, G. J.; Bai, J. T.; Dang, S. J.; Zhao, R. S.; Dong, A. J.; Zhang, D. D.; Lin, Q. W.; and 1 coauthor  
"Frequency Evolution Behavior of Pulse Profile of PSR B1737+13 with the Inverse Compton Scattering Model".  
ApJ,  
926, 73 Published  
(2022). [\(P\)](https://doi.org/10.3847/1538-4357/ac4499)
- 
- 79 Janagal, P.; Chakraborty, M.; Bhat, N. D. R.; Bhattacharyya, B.; McSweeney, S. J.f  
"Revisiting the subpulse drifting phenomenon in PSR J1822-2256: drift modes, sparks, and emission heights".  
MNRAS,  
509, 4573-4584 Published  
(2022). [\(P\)](https://doi.org/10.1093/mnras/stab3305)
- 
- 80 Pandey, R.; Sharma, S.; Dewangan, L. K.; Ojha, D. K.; Panwar, N.; Das, S.; Bisen, D. P. Ghosh, A.; Sinha, T.  
"Sh 2-301: A Blistered H II Region Undergoing Star Formation".  
ApJ,  
926, 25 Published  
(2022). [\(P\)](https://doi.org/10.3847/1538-4357/ac41c3)

- 81 Cárdenas, S. B.; Cichowolski, S.; Suad, L. A.; Lera, J. A. M.; Gamen, R.; Rizzo, L.

"A multiwavelength study of the H II region G347.600 + 00.211 and its effects on the surrounding medium".

MNRAS,

509, 3395-3409

Published

(2022). <https://doi.org/10.1093/mnras/stab3084>

(C, P, M)

---

- 82 \*Ingallinera, A.; Cavallaro, F.; Loru, S.; Marvil, J.; Umana, G.; Trigilio, C.; Breen, S.; Bordiu, C.; Buemi, C. S.; Bufano, F.; and 12 coauthors

"Evolutionary Map of the Universe (EMU): 18-cm OH-maser discovery in ASKAP continuum images of the SCORPIO field".

MNRAS,

512, L21-L26

Published

(2022). <https://doi.org/10.1093/mnrasl/slac017>

(A, C)

---

- 83 \*Szakacs, R.; Péroux, C.; Zwaan, M. A.; Nelson, D.; Schinnerer, E.; Lahén, N.; Weng, S.; Fresco, A. Y.

"The column densities of molecular gas across cosmic time: bridging observations and simulations".

MNRAS,

512, 4736-4751

Published

(2022). <https://doi.org/10.1093/mnras/stac510>

(O)

---

- 84 \*Serylak, M.; Venkatraman Krishnan, V.; Freire, P. C. C.; Tauris, T. M.; Kramer, M.; Geyer, M.; Parthasarathy, A.; Bailes, M.; Bernadic M. C. i.; Buchner, S.; and 10 coauthors

"The eccentric millisecond pulsar, PSR J0955–6150. I. Pulse profile analysis, mass measurements, and constraints on binary evolution".

A&A,

665, A53

Published

(2022). <https://doi.org/10.1051/0004-6361/202142670>

(P)

---

- 85 \*Bezuidenhout, M. C.; Barr, E.; Caleb, M.; Driessen, L. N.; Jankowski, F.; Kramer, M.; Malenta, M.; Morello, V.; Rajwade, K.; Sanidas, S.; and two coauthors

"MeerTRAP: 12 Galactic fast transients detected in a real-time, commensal MeerKAT survey".

MNRAS,

512, 1483-1498

Published

(2022). <https://doi.org/10.1093/mnras/stac579>

(P)

---

- 86 Paduano, A.; Bahramian, A.; Miller-Jones, C. A.; Kawka, A.; Göttgens, F.; Strader, J.; Chomiuk, L.; Kamann, S.; Dreizler, S.; Heinke, C. O.; and 4 coauthors

"The MAVERIC Survey: The first radio and X-ray limits on the detached black holes in NGC 3201".

MNRAS,

510, 3658-3673

Published

(2022). <https://doi.org/10.1093/mnras/stab3743>

(C)

---

- 87 Kantz, D.; Markoff, S.; Lucchini, M.; Ceccobello, C.; Grinberg, V.; Connors, R. M. T; Uttley, P.

"The prototype X-ray binary GX 339-4: using TeV  $\gamma$ -rays to assess LMXBs as Galactic cosmic ray accelerators".

MNRAS,

510, 5187-5198

Published

(2022). <https://doi.org/10.1093/mnras/stac004>

(C)

---

- 88 Carotenuto, F.; Tetarenko, A. J.; Corbel, S.

"Modeling the kinematics of the decelerating jets from the black hole X-ray binary MAXI J1348-630".

MNRAS,

511, 4826-4841

Published

(2022). <https://doi.org/10.1093/mnras/stac329>

(C)

---

- 89 Khabibullin, I.; Churazov, E.; Sunyaev, R.

"SRG/eROSITA view of X-ray reflection in the Central Molecular Zone: a snapshot in September-October 2019".

MNRAS,

509, 6068-6076

Published

(2022). <https://doi.org/10.1093/mnras/stab3333>

(M)

---

- 90 \*Broderick, J. W.; Drouart, G.; Seymour, N.; Galvin, T. J.; Wright, N.; Carnero Rosell, A.; Chhetri, R.; Dannerbauer, H.; Driver, S. P.; Morgan, J. S.; and 20 coauthors

"The GLEAMing of the first supermassive black holes: II. A new sample of high-redshift radio galaxy candidates".

PASA,

39, e061

Published

(2022). <https://doi.org/10.1017/pasa.2022.42>

(C)

---

- 91 \*Carretti, E.; Vacca, V.; O'Sullivan, S. P.; Heald, G. H.; Horellou, C.; Röttgering, H. J. A.; Scaife, A. M. M.; Shimwell, T. W.; Shulevski, A; Stuardi, C.; and 1 coauthor  
 "Magnetic field strength in cosmic web filaments".  
 MNRAS,  
 512, 945-959  
 Published  
 (2022). [\(O\)](https://doi.org/10.1093/mnras/stac384)
- 
- 92 \*Pastor-Marazuela, I.; van Leeuwen, J.; Bilous, A.; Connor, L.; Maan, Y.; Oostrum, L.; Petroff, E.; Straal, S.; Vohl, D.; Adams, E. A. K.; and 24 coauthors  
 "A fast radio burst with sub-millisecond quasi-periodic structure".  
 A&A,  
 Submitted  
 (2022). (O)
- 
- 93 \*Shimwell, T. W.; Hardcastle, M. J.; Tasse, C.; Best, P. N.; Röttgering, H. J. A.; Williams, W. L.; Botteon, A.; Drabent, A.; Mechev, A.; Shulevski, A.; and 96 coauthors  
 "The LOFAR Two-metre Sky Survey. V. Second data release".  
 A&A,  
 659, A1  
 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202142484)
- 
- 94 \*Singh, S.; Nambissan T., J.; Subrahmanyam, R.; Udaya Shankar, N.; Girish, B. S.; Raghunathan, A.; Somashekar, R.; Srivani, K. S.; Sathyanarayana Rao, M.  
 "On the detection of a cosmic dawn signal in the radio background".  
 Nat. Astron.,  
 6 607-617  
 Published  
 (2022). [\(O\)](https://doi.org/10.1038/s41550-022-01610-5)
- 
- 95 \*Babich, G.; Bengston, K.; Bolin, A.; Bunton, J.; Chen, Y.; Hampson, G.; Humphrey, D.; Jourjon, G.  
 "Networked Answer to "Life, The Universe, and Everything". In:  
*Proceedings of the Symposium on Architectures for Networking and Communications Systems*, online 13-15 December 2021,  
 157–163  
 Published  
 (2022). [\(O\)](https://doi.org/10.1145/3493425.3502770)
-

96 \*Luken, K. J.; Norris, R. P.; Park, L. A. F.; Wang, X. R.; Filipović, M. D.

"Estimating galaxy redshift in radio-selected datasets using machine learning".

Astron. Comput.,

39, 100557

Published

(2022). <https://doi.org/10.1016/j.ascom.2022.100557>

(O)

---

97 \*Gürkan, G.; Prandoni, I.; O'Brien, A.; Raja, W.; Marchetti, L.; Vaccari, M.; Driver, S.; Taylor, E.; Franzen, T.; Brown, M. J. I.; and 12 coauthors

"Deep ASKAP EMU Survey of the GAMA23 field: properties of radio sources".

MNRAS,

512, 6104-6121

Published

(2022). <https://doi.org/10.1093/mnras/stac880>

(A)

---

98 \*van Cappellen, W. A.; Oosterloo, T. A.; Vergeijen, M. A. W.; Adams, E. A. K.; Adebahr, B.; Braun, R.; Hess, K. M.; Holties, H.; van der Hulst, J. M.; Hut, B.; and 80 coauthors

"Apertif: Phased array feeds for the Westerbork Synthesis Radio Telescope. System overview and performance characteristics".

A&A,

658, A146

Published

(2022). <https://doi.org/10.1051/0004-6361/202141739>

(O)

---

99 \*Bruni, G.; Bassani, L.; Persic, M.; Rephaeli, Y.; Malizia, A.; Molina, M.; Fiocchi, M.; Ricci, R.; Wieringa, M. H.; Giroletti, M.; and 3 coauthors

"IGR J18249-3243: a new GeV-emitting FR II and the emerging population of high-energy radio galaxies".

MNRAS,

513, 886-899

Published

(2022). <https://doi.org/10.1093/mnras/stac865>

(C)

---

100 \*Segar, R.; Balakrishnan, V.; Stevenson, S.; Bailes, M.; Barr, E. D.; Bhat, N. D. R.; Burgay, M.; Bernadich, M. C. i.; Cameron, A. D.; Champion, D. J.; and 13 coauthors

"The High Time Resolution Universe Pulsar Survey - XVII. PSR J1325-6253, a low eccentricity double neutron star system from an ultra-stripped supernova".

MNRAS,

512, 5782-5792

Published

(2022). <https://doi.org/10.1093/mnras/stac821>

(P)

---

101 \*Slijepcevic, I. V.; Scaife, A. M. M.; Walmsley, M.; Bowles, M.; Wong, O. I.; Shabala, S. S.; Tang, H.

"Radio Galaxy Zoo: using semi-supervised learning to leverage large unlabelled data sets for radio galaxy classification under data set shift".

MNRAS,

514, 2599-2613

Published

(2022). <https://doi.org/10.1093/mnras/stac1135>

(O)

---

102 \*Ianjamasimanana, R.; Koribalski, B. S.; Józsa, G. I. G.; Kamphuis, P.; de Blok, W. J. G.; Kleiner, D.; Namumba, B.; Carignan, G.; Dettmar, R. -J.; Serra, P.; and 13 coauthors

"The extended H I halo of NGC 4945 as seen by MeerKAT".

MNRAS,

513, 2019-2038

Published

(2022). <https://doi.org/10.1093/mnras/stac936>

(O)

---

103 \*Zhou, Y.; Sengupta, C.; Chandola, Y.; Wong, O. I.; Scott, T. C.; Ma, Y.; Chen, H.

"HIPASS study of southern ultradiffuse galaxies and low surface brightness galaxies".

MNRAS,

516, 1781-1787

Published

(2022). <https://doi.org/10.1093/mnras/stac2344>

(P)

---

104 \*Arcus, W. R.; James, C. W.; Ekers, R. D.; Wayth, R. B.

"Comparison of the Parkes and FAST FRB DM distribution".

MNRAS,

512, 2093-2098

Published

(2022). <https://doi.org/10.1093/mnras/stac626>

(P)

---

105 \*Dawson, J. R.; Jones, P. A.; Purcell, C.; Walsh, A. J.; Breen, S. L.; Brown, C.; Carretti, E.; Cunningham, M. R.; Dickey, J. M.; Ellingsen, S. P.; and 9 coauthors

"SPLASH: the Southern Parkes Large-Area Survey in Hydroxyl - data description and release".

MNRAS,

512, 3345-3364

Published

(2022). <https://doi.org/10.1093/mnras/stac636>

(C, P)

---

106 \*Yong, S. Y.; Shi, J.; Webster, R. L.

"Quasar Orientation: Population Statistics".

PASA,

Submitted

(2022). (O)

---

107 \*Ignesti, A.; Brunetti, G.; Shimwell, T.; Gitti, M.; Birzan, L.; Botteon, A.; Brüggen, M.; de Gasperin, F.; Di Gennaro, G.; Edge, A. C.; and 3 coauthors

"A LOFAR view into the stormy environment of the galaxy cluster 2A0335+096".

A&A,

659, A20

Published

(2022). <https://doi.org/10.1051/0004-6361/202142549> (O)

---

108 \*Dunn, L.; Melatos, A.; Suvorova, S.; Moran, W.; Evans, R. J.; Oslowski, S.; Lower, M. E.; Bailes, M.; Flynn, C.; Gupta, V.

"Systematic upper limits on the size of missing pulsar glitches in the first UTMOST open data release".

MNRAS,

512, 1469–1482

Published

(2022). <https://doi.org/10.1093/mnras/stac551> (O)

---

109 \*Roychoudhury, S.; Meyer, M. J.; Rhee, J.; Zwaan, M. A.; Chauhan, G.; Davies, L. J. M.; Bellstedt, S.; Driver, S. P.; Lagos, C. del P.; Robotham, A. S. G.; and 10 coauthors

"The Variation of the Gas Content of Galaxy Groups and Pairs Compared to Isolated Galaxies".

ApJ,

927, 20

Published

(2022). <https://doi.org/10.3847/1538-4357/ac49ea> (A)

---

110 \*Takeuchi, T. T.; Yoshida, S. A.; Cortese, L.; Wong, O. I.; Catinella, B.; Cooray, S.

"Estimation of the Star Formation Rate of Galaxies with Radio Continuum Obtained with Murchison Widefield Array".

PASJ,

Submitted

(2022). (O)

---

111 \*Lee, B.; Wang, J.; Chung, A.; Ho, L. C.; Wang, R.; Michiyama, T.; Molina, J.; Kim, Y.; Shao, L.; Kilborn, V.; and 22 coauthors

"ALMA/ACA CO Survey of the IC 1459 and NGC 4636 Groups: Environmental Effects on the Molecular Gas of Group Galaxies".

ApJS,

262, 31

Published

(2022). <https://doi.org/10.3847/1538-4365/ac7eba>

(A)

---

112 \*Chibueze, J. O.; Caleb, M.; Spitler, L.; Ashkar, H.; Schüssler, F.; Stappers, B. W.; Venter, C.; Heywood, I.; Richards, A. M. S.; Williams D. R. A.; and 147 coauthors

"A MeerKAT, e-MERLIN, H.E.S.S., and Swift search for persistent and transient emission associated with three localized FRBs".

MNRAS,

515, 1365-1379

Published

(2022). <https://doi.org/10.1093/mnras/stac1601>

(O)

---

113 \*Rajwade, K. M.; Bezuidenhout, M. C.; Caleb, M.; Driessen, L. N.; Jankowski, F.; Malenta, M.; Morellos, V.; Sanidas, S.; Stappers, B. W.; Surnis, M. P.; and 17 coauthors

"First discoveries and localisations of Fast Radio Bursts with MeerTRAP: a real-time, commensal MeerKAT survey".

MNRAS,

514, 1961-1974

Published

(2022). <https://doi.org/10.1093/mnras/stac1450>

(O)

---

114 \*Rowlinson, A.; Meijn, J.; Bright, J.; van der Horst, A. J.; Chastain, S.; Fijma, S.; Fender, R.; Heywood, I.; Wijers, R. A. M. J.; Woudt, P. A.; and 4 coauthors

"Search and identification of transient and variable radio sources using MeerKAT observations: a case study on the MAXI J1820 +070 field".

MNRAS,

517, 2894-2911

Published

(2022). <https://doi.org/10.1093/mnras/stac2460>

(O)

---

115 \*Sobey, C.; Bassa, C. G.; O'Sullivan, S. P.; Callingham, J. R.; Tan, C. M.; Hessels, J. W. T.; Kondratiev, V. I.; Stappers, B. W.; Tiburzi, C.; Heald, G.; and 8 coauthors

"Searching for pulsars associated with polarised point sources using LOFAR: Initial discoveries from the TULIPP project".

A&A,

661, A87

Published

(2022). <https://doi.org/10.1051/0004-6361/202142636>

(O)

---

116 Feijen, K.; Einecke, S.; Rowell, G.; Braiding, C.; Burton, M. G.; Wong, G. F.

"Modelling the gamma-ray morphology of HESSJ1804-216 from two supernova remnants in a hadronic scenario".

MNRAS,

511, 5915-5926

Published

(2022). <https://doi.org/10.1093/mnras/stac320>

(M)

---

117 Chen, J. L.; Wen, Z. G.; Yuan, J. P.; Wang, Z.; Wang, N.; Yan, W. M.; Yuen, R.; Wang, H. G.; Zhao, K.; Xiang, B. B. and 2 coauthors

"Interstellar Scintillation of PSR J2048-1616".

ApJ,

927, 14

Published

(2022). <https://doi.org/10.3847/1538-4357/ac3995>

(M)

---

118 Ross, K.; Hurley-Walker, N.; Seymour, N.; Callingham, J. R.; Galvin, T. J.; Johnston-Hollitt, M.

"Wide-Band Spectral Variability of Peaked Spectrum Sources".

MNRAS,

512, 5358-5373

Published

(2022). <https://doi.org/10.1093/mnras/stac819>

(C)

---

119 Aihara, H.; AlSayyad, Y.; Ando, M.; Armstrong, R.; Bosch, J.; Egami, E.; Furusawa, H.; Furusawa, J.; Harasawa, S.; Harikane, Y.; and 57 coauthors

"Third data release of the Hyper Suprime-Cam Subaru Strategic Program".

PASJ,

74, 247-272

Published

(2022). <https://doi.org/10.1093/pasj/psab122>

(A)

---

120 \*Gulati, A.; Murphy, T.; Wang, Y.; Leung, J.; Pritchard, J.; Lenc, E.; Kaplan, D.

"ATCA and ASKAP radio observations of classical nova YZ Ret"

The Astronomer's Telegram,

#15264,

Published

(2022).

(A, C)

---

- 121 Ryder, S. D.; Marnoch, L.; Kundu, E.; Filipovic, M. D.; Alsaberi, R. Z. E.; Anderson, G.; Stockdale, C.; Maeda, K.; Renaud, M.; Kotak, R.  
"Radio detection of SN 2022crv".  
  
The Astronomer's Telegram,  
#15257, Published  
(2022). (C)
- 
- 122 \*Kadler, M.; Stevens, J.; Ojha, R.; Edwards, P. G.  
  
"ATCA finds a long-term radio flare of PKS0215+015 coincident with IceCube-220225A".  
  
The Astronomer's Telegraph,  
#15245, Published  
(2022). (C)
- 
- 123 \*Deg, N.; Spekkens, K.; Westmeier, T.; Reynolds, T. N.; Venkataraman, P. Goliath, S.; Shen, A. X.; Halloran, R.; Bosma, A.; Catinella, B.; and 22 coauthors  
  
"WALLABY Pilot Survey: Public release of HI kinematic models for more than 100 galaxies from phase 1 of ASKAP pilot observations".  
  
PASA,  
39, e059 Published  
(2022). <https://doi.org/10.1017/pasa.2022.43> (A)
- 
- 124 \*Zou, P.; Yang, D.; Wang, J.; Staveley-Smith, L.; Lin, X.; For, B. -Q.; Westmeier, T.; Wang, J. Spekkens, K.; Lee-Waddell, K.; and 8 coauthors  
  
"Mapping H I in the NGC 4636 Galaxy Group with FAST".  
  
RAA,  
22, 095016 Published  
(2022). <https://doi.org/10.1088/1674-4527/ac7f86> (O)
- 
- 125 \*Westmeier, T. ; Deg, N.; Spekkens, K.; Reynolds, T. N.; Shen, A. X.; Gaudet, S.; Goliath, S.; Huynh, M. T.; Venkataraman, P.; Lin, X.; and 42 coauthors  
  
"WALLABY pilot survey: Public release of H I data for almost 600 galaxies from phase 1 of ASKAP pilot observations".  
  
PASA,  
39, e058 Published  
(2022). <https://doi.org/10.1017/pasa.2022.50> (A)

126 \*Bai, J. T.; Dai, S.; Zhi, Q. J.; Coles, W. A.; Li, D.; Zhu, W. W.; Hobbs, G.; Qiao, G. J.; Yuan, J. P.; Filipovic, M. D.; and 6 coauthors

"Detection of strong scattering close to the eclipse region of PSR B1957+20".

MNRAS,

513, 1794-1800

Published

(2022). <https://doi.org/10.1093/mnras/stac918>

(O)

---

127 \*Luo, R.; Hobbs, G.; Yong, S. Y.; Zic, A.; Toomey, L.; Dai, S.; Dunning, A.; Li, D.; Marshman, T.; Wang, C.; and 3 coauthors

"Simulating high-time resolution radio-telescope observations".

MNRAS,

513, 5881-5891

Published

(2022). <https://doi.org/10.1093/mnras/stac1168>

(P)

---

128 \*Chhetri, R.; Morgan, J.; Moss, V.; Ekers, R.; Scott, D.; Bannister, K.; Day, C. K.; Deller, A. T.; Shannon, R. M.

"First measurement of interplanetary scintillation with the ASKAP radio telescope: implications for space weather".

Adv. Space Res.,

Submitted

(2022).

(A)

---

129 \*Riseley, C. J.; Bonnassieux, E.; Vernstrom, T.; Galvin, T. J.; Chokshi, A.; Botteon, A.; Eckert, D.; Rajpurohit, K.; Bonafiede, A.; Brienza, M.; and 15 coauthors

"Radio fossils, relics, and haloes in Abell 3266: cluster archaeology with ASKAP-EMU and the ATCA".

MNRAS,

515 1871-1896

Published

(2022). <https://doi.org/10.1093/mnras/stac1771>

(A, C)

---

130 \*Charles, N.; Bernardi, G.; Bester, H. L.; Smirnov, O. M.; Carilli, C.; Keller, P. M.; Kern, N.; Nikolic, B.; Thyagarajan, N.; de Lera Acedo, E.; and 2 coauthors

"Simulations of primary beam effects on the cosmic bispectrum phase observed with the Hydrogen Epoch of Reionization Array".

MNRAS,

512, 2716-2727

Published

(2022). <https://doi.org/10.1093/mnras/stac709>

(O)

---

131 \*Rajpurohit, K.; van Weeren, R. J.; Hoeft, M.; Vazza, F.; Brienza, M.; Forman, W.; Wittor, D.; Domínguez-Fernández, P.; Rajpurohit, S Riseley, C.; and 14 coauthors

"Deep Low-frequency Radio Observations of A2256. I. The Filamentary Radio Relic".

ApJ,

927, 80

Published

(2022). <https://doi.org/10.3847/1538-4357/ac4708>

(O)

---

132 \*Somboonpanyakul, T.; McDonald, M.; Noble, A.; Aguena, M.; Allam, S.; Amon, A.; Andrade-Oliveira, F.; Bacon, D.; Bayliss, M. B.; Bertin, E.; and 72 coauthors

"The Evolution of AGN Activity in Brightest Cluster Galaxies".

AJ,

163, 146

Published

(2022). <https://doi.org/10.3847/1538-3881/ac503>

(O)

---

133 \*Riseley, C. J.; Rajpurohit, K.; Loi, F.; Botteon, A.; Timmerman, R.; Biava, N.; Bonafede, A.; Bonnassieux, E.; Brunetti, G.; Enßlin, T.; and 6 coauthors

"A MeerKAT-meets-LOFAR study of MS 1455.0 + 2232: a 590 kiloparsec 'mini'-halo in a sloshing cool-core cluster".

MNRAS,

512, 4210-4230

Published

(2022). <https://doi.org/10.1093/mnras/stac672>

(O)

---

134 Oh, S. -H.; Kim, S.; For, B. -Q.; Staveley-Smith L.

"Kinematic Decomposition of the H I Gaseous Component in the Large Magellanic Cloud".

ApJ,

928, 177

Published

(2022). <https://doi.org/10.3847/1538-4357/ac5905>

(C, P)

---

135 \*Gulati, A.; Murphy, T.; Wang, Y.; Leung, J.; Lenc, E.

"Dimming of classical nova V1369 Cen (Nova Centauri 2013) from ATCA and ASKAP radio observations".

The Astronomer's Telegram,

#15310, #15310

Published

(2022).

(A)

---

136 Yu, N. -P.; Xu, J. -L.; Zhang, C. -P.; Jiang, P.; Liu, X. -L.; Wang, J. -J.

"Physical and Chemical Properties of the Molecular Gas Associated with the Mid-infrared Bubble S156".

ApJ,

928, 83

Published

(2022). <https://doi.org/10.3847/1538-4357/ac49ee>

(M)

---

137 \*Adebahr, B.; Berger, A.; Adams, E. A. K.; Hess, K. M.; de Blok, W. J. G.; Dénes, H.; Moss, V. A.; Schulz, R.; van der Hulst, J. M.; Connor, L.; and 17 coauthors

"The Apertif science verification campaign. Characteristics of polarised radio sources".

A&A,

663, A103

Published

(2022). <https://doi.org/10.1051/0004-6361/202243201>

(O)

---

138 \*Shulevski, A.; Franzen, T. M. O.; Williams, W. L.; Vernstrom, T.; Gehlot, B. K.; Kuiack, M.; Wijers, R. A. M. J.

"Characterization of the AARTAAC-12 aperture array: radio source counts at 42 and 61 MHz".

MNRAS,

513, 1036-1045

Published

(2022). <https://doi.org/10.1093/mnras/stac881>

(O)

---

139 \*Andersson, A.; Fender, R.; Lintott, C.; Williams, D.; Driessen, L.; Woudt, P.; van der Horst, A.; Buckley, D.; Motta, S.; Rhodes, L.; and 5 coauthors

"Serendipitous discovery of radio flaring behaviour from a nearby M dwarf with MeerKAT".

MNRAS,

513, 3482-3492

Published

(2022). <https://doi.org/10.1093/mnras/stac1002>

(O)

---

140 \*Bignall, H. E.; Tuntsov, A. V.; Stevens, J.; Bannister, K.; Walker, M. A.; Reynolds, C.;

"The annual cycle in scintillation time-scale of PMN J1726+0639".

MNRAS,

513, 2770-2776

Published

(2022). <https://doi.org/10.1093/mnras/stac1051>

(C)

---

141 \*Su, R.; Sadler, E. M.; Allison, J. R.; Mahony, E. K.; Moss, V. A.; Whiting, M. T.; Yoon, H.; Aditya, J. N. H. S.; Bellstedt, S.; Robotham, S. G.; and 5 coauthors

"FLASH pilot survey: detections of associated 21 cm H I absorption in GAMA galaxies at  $0.42 < z < 1.00$ ".

MNRAS,

516, 2947-2970

Published

(2022). <https://doi.org/10.1093/mnras/stac2257>

(A)

---

142 Klingler, N.; Kargaltsev, O.; Pavlov, G. C.; Ng, C. -Y.; Gong, Z.; Hare, J.

""The Goose" Pulsar Wind Nebula of PSR J1016-5857: The Birth of a Plerion".

ApJ,

932, 89

Published

(2022). <https://doi.org/10.3847/1538-4357/ac6ac6>

(C)

---

143 \*Goss, W. M. ; Hooker, C.; Ekers, R. D.

"Joe Pawsey and the Founding of Australian Radio Astronomy. Early Discoveries, from the Sun to the Cosmos'

Historical & Cultural Astronomy,

Published

(2022).

(O)

---

144 Koshiba, Y.; Uchida, H.; Tanaka, T.; Amano, Y.; Sano, H.; Tsuru, T. G.

"High resolution X-ray study of supernova remnant J0453.6 – 6829 with unusually high forbidden-to-resonance ratio".

PASJ,

74, 757-766

Published

(2022). <https://doi.org/10.1093/pasj/psac033>

(C, P)

---

145 \*Zic, A.; Hobbs, G.; Shannon, R. M.; Reardon, D.; Goncharov, B.; Bhat, N. D. R.; Cameron, A.; Dai, S.; Dawson, J. R.; Kerr, M. and anc 6 others

"Evaluating the prevalence of spurious correlations in pulsar timing array data sets".

MNRAS,

516, 410-420

Published

(2022). <https://doi.org/10.1093/mnras/stac2100>

(P)

---

146 Parker, A.; Nguyen, M.; Locke, S.; Paget, M.; Tuan, V. A.; Dao, N. L.; Quang, N. H.; Linh, P. N. C.; Zhou, Z. -S.; Anstee, J.

"Partnering to boost Earth observation capability in Vietnam". In:

*Advancing Earth Observation Forum 2022*, Brisbane, Australia, 22-25 August 2022,

Published

(2022). (O)

---

147 Parker, A.; Paget, M.; Luke, E.; Lehmann, E.; Taib, R.; Horwood, R.

"Unlocking Earth observation data for South-East Asia using the Open Data Cube". In:

*Advancing Earth Observation Forum 2022*, Brisbane, Australia, 22-25 August 2022,

Published

(2022). (O)

---

148 Woodcock, R.; Paget, M.; Squire, G.; Taib, R.; Parker, A.; Held, A.

"The CSIRO Earth Analytics Science Innovation Hub (EASI)". In:

*Advancing Earth Observation Forum 2022*, Brisbane, Australia, 22-25 August 2022,

Published

(2022). (O)

---

149 Dekker, A.; Kerblat, F.; Seubert, C.; Muir, J.; Sims, N.; Malthus, T.; Biswas, T.; Held, A.; MacLeod, A.

"AquaWatch. An integrated aquatic observing system with global applications". In:

*Living Planet Symposium*, Bonn, Germany, 23-27 May 2022,

Published

(2022). (O)

---

150 \*Sinigaglia, F.; Rodighiero, G.; Elson, E.; Vaccari, M.; Maddox, N.; Frank, B. S.; Jarvis, M. J.; Oosterloo, T.; Davé, R.; Salvato, M.; and 26 coauthors

"MIGHTEE-HI: Evolution of HI scaling relations of star-forming galaxies at  $z < 0.5$ ".

ApJ,

935, L13

Published

(2022). <https://doi.org/10.3847/2041-8213/ac85ae>

(O)

---

151 Urošević, D.

"On the Determination of the Evolutionary Status of Supernova Remnants from Radio Observation Data".

PASP,

134, 061001

Published

(2022). <https://doi.org/10.1088/1538-3873/ac6e4c>

(C)

---

152 \*Tudor, V.; Miller-Jones, J. C. A.; Strader, J.; Bahramian, A.; Shishkovsky, L.; Plotkin, R. M.; Chomiuk, L. Heinke, C. O.; Maccarone, T. J.; Sivakoff, G. R.; and 4 coauthors

"The MAVERIC survey: A catalogue of radio sources in southern globular clusters from the Australia Telescope Compact Array".

MNRAS,

513, 3818-3835

Published

(2022). <https://doi.org/10.1093/mnras/stac1034>

(C)

---

153 \*Kaur, D.; Bhat, N. D. R.; Dai, S.; McSweeney, S. J.; Shannon, R. M.; Kudale, S.; van Straten, W.

"Detection of Frequency-dependent Dispersion Measure toward the Millisecond Pulsar J2241-5236 from Contemporaneous Wideband Observations".

ApJ,

930, L27

Published

(2022). <https://doi.org/10.3847/2041-8213/ac64ff>

(P)

---

154 \*Bevins, H. T. J.; de Lera Acedo, E.; Fialkov, A.; Handley, W. J.; Singh, S.; Subrahmanyam, R.; Barkana, R.

"A comprehensive Bayesian reanalysis of the SARAS2 data from the epoch of reionization".

MNRAS,

513, 4507-4526

Published

(2022). <https://doi.org/10.1093/mnras/stac1158>

(O)

---

155 \*Wang, Y.; Murphy, T.; Kaplan, D. L.; Klinner-Teo, T.; Ridolfi, A.; Bailes, M. Crawford, F.; Dai, S.; Dobie, D.; Gaensler, B. M.; and 16 coauthors

"Discovery of PSR J0523-7125 as a Circularly Polarized Variable Radio Source in the Large Magellanic Cloud".

ApJ,

930, 38

Published

(2022). <https://doi.org/10.3847/1538-4357/ac61dc>

(A)

---

156 \*Dai, S.; Feng, Y.; Yang, Y. P.; Zhang, Y. K.; Li, D.; Niu, C. H.; Wang, P.; Xue, M. Y.; Zhang, B.; Burke-Spolaor, S.; and 15 coauthors

"Magnetic Field Reversal around an Active Fast Radio Burst".

Nature Astronomy,

Submitted

(2022). (P)

---

157 \*Jacobs, C. S.; Horiuchi, S.; Firre, D.; Murata, Y.; Takeuchi, H.; Uchimura, T.; Asmar, S.

"The JPL 2022a X/Ka Celestial Reference Frame". In

*Proc. 12th IVS General Meeting*, Helsinki, Finland, 27 March-1 April 2022,

4 Published

(2022). (O)

---

158 \*Yong, S. Y.; Hobbs, G.; Huynh, M. T.; Rolland, V.; Petersson, L.; Norris, R. P.; Dai, S.; Luo, R.; Zic, A.

"SPARKESX: Single-dish PARKES data sets for finding the unexpected - a data challenge".

MNRAS,

516, 5832-5848 Published

(2022). <https://doi.org/10.1093/mnras/stac2558> (P)

---

159 \*Zhou, Z. -R.; Wang, J. -B.; Wang, N.; Hobbs, G.; Wang, S. -Q.

"Ultra-wide Bandwidth Observations of 19 Pulsars with Parkes Telescope".

Res. Astron. Astrophys.,

22 085001 Published

(2022). <https://doi.org/10.1088/1674-4527/ac712b> (P)

---

160 \*Russell, T. D.; Del Santo, M.; Marino, A.; Segreto, A.; Motta, S. E.; Bahramian, A.; Corbel, S.; D'Aì, A.; Di Salvo, T.; Miller-Jones, J. C. A.; and 3 coauthors

"Investigating the nature and properties of MAXI J1810-222 with radio and X-ray observations".

MNRAS,

513, 6196-6209 Published

(2022). <https://doi.org/10.1093/mnras/stac1332> (C)

---

161 \*Edwards, P. G.; Stevens, J.; Matthias, K.; Roopesh, O.

"ATCA observations of the flaring gamma-ray blazar 4C+01.02".

The Astronomer's Telegram,

#15377

Published

(2022). (C)

---

162 Massardi, M.; Bonato, M.; López-Caniego, M.; Galluzzi, V.; De Zotti, G.; Bonavera, L.; Gonzalez-Nuevo, J.; Lapi, A.; Liuzzo, E.

"Selecting a complete sample of blazars in sub-millimetre catalogues".

MNRAS,

513, 6013-6027

Published

(2022). <https://doi.org/10.1093/mnras/stac1262> (C)

---

163 \*Mohamadzade, B.; Haymand, D. B.; Dunning, A.; Smith, S. L.; Bowen, M.

"Validation of Phased Array Mutual Coupling Simulation with Analytical Calculation". In:

*ISAP2022: The 2022 International Symposium on Antennas and Propagation*, Sydney, Australia, 31 October-3 November 2022,

Published

(2022). (O)

---

164 \*Nosrati, H.; Aboutanios, E.; Wang, X.; Smith, D.

"Switch-based Hybrid Beamforming for Massive MIMO Communications in mmWave Bands".

Signal Process.,

200, 108659

Published

(2022). <https://doi.org/10.1016/j.sigpro.2022.108659> (O)

---

165 \*Pomakov, V. P.; O'Sullivan, S. P. O.; Brüggen, M.; Vazza, F.; Carretti, E.; Heald, G. H.; Horellou, C.; Shimwell, T.; Shulevski, A.; Vernstrom, T.

"The redshift evolution of extragalactic magnetic fields".

MNRAS,

515, 256-270

Published

(2022). <https://doi.org/10.1093/mnras/stac1805> (O)

---

- 166 \*Zhang, J.; Cooke, J.; Webbs, S.; Simon, G.; Alvarado-Montes, J. A.; Bala, S.; Bhalerao, V.; Bhattacharya, D.; Cai, C.; Caddy, S.; and P? others

"Simultaneous Multi-wavelength Observations of two Fast Radio Bursts with the Deeper Wider Faster Program".

??,

Submitted

(2022). (P)

---

- 167 \*Swainston, N. A.; Bhat, N. D. R.; Morrison, I. S.; McSweeney, S. J.; Ord, S. M.; Tremblay, S. E.; Sokolowski, M.

"MWA tied-array processing IV: A multi-pixel beamformer for pulsar surveys and ionospheric corrected localisation".

PASA,

39, e020

Published

(2022). [\(O\)](https://doi.org/10.1017/pasa.2022.14)

---

- 168 \*Balzan, J. C. F.; Filipovid, M. D.; Dai, S.; Alsaberi, R. Z. E.; Barnes, L.

"A Radio Continuum Study of NGC 2082".

Astrophys. Space Sci.,

367, 61

Published

(2022). [\(A, C, P\)](https://doi.org/10.1007/s10509-022-04086-x)

---

- 169 Williams, B. A.; Walker, D. L.; Longmore, S. N.; Barnes, A. T.; Battersby, C.; Garay, G.; Ginsburg, A.; Gomez, L.; Henshaw, J. D.; Ho, L. C.; and 5 coauthors

"The initial conditions for young massive cluster formation in the Galactic Centre: convergence of large-scale gas flows".

MNRAS,

514, 578-595

Published

(2022). [\(M\)](https://doi.org/10.1093/mnras/stac1378)

---

- 170 \*Gupta, N.; Huynh, M.; Norris, R. P.; Wang, R.; Hopkins, A. M.; Andernach, H.; Koribalski, B. S.; Galvin, T. J.

"Discovery of peculiar radio morphologies with ASKAP using unsupervised machine learning".

PASA,

39, e051

Published

(2022). [\(A\)](https://doi.org/10.1017/pasa.2022.44)

---

171 Dang, S. J.; Shang, L. H.; Lin, L.; Zhi, Q. J.; Zhao, R. S.; Wu, C. B.; You, Z. Y.; Dong, A. J.; Bai, J. T.; Xu, X.; and 3 coauthors

"Subpulse Drifting of PSR J1110-5637".

Res. Astron. Astrophys.,

22, 065011

Published

(2022). <https://doi.org/10.1088/1674-4527/ac6aab>

(P)

172 Rejejp, R.; Yan, W. -M.; Wang, N.

"Simultaneous 50 cm/10 cm Single-pulse Polarization Observations of PSR J0953+0755".

Res. Astron. Astrophys.,

22, 065005

Published

(2022). <https://doi.org/10.1088/1674-4527/ac6735>

(P)

173 Sano, H.; Yamaguchi, H.; Aruga, M.; Tachihara, K.; Filipovic, M. D.; Rowell, G.

"An Expanding Shell of Neutral Hydrogen Associated with SN 1006: Hints for the Single-Degenerate Origin and Faint Hadronic Gamma-Rays".

ApJ,

933, 157

Published

(2022). <https://doi.org/10.3847/1538-4357/ac7465>

(C)

174 Laskar, T.; Bhandari, S.; Alexander, K. D.; Berger, E.; Chornock, R.; Coppejans, D.; Drout, M.; van Eerten, G.; Fong, W.; Guidorzi, C.; and 4 coauthors

"GRB 220521A: ATCA detection".

GCN,

32111

Published

(2022). (C)

175 \*Wong, T.; Oudshoorn, L.; Sofovich, E.; Green, A.; Shah, C.; Indebetouw, R.; Meixner, M.; Hacar, A.; Nayak, O.; Tokuda, K.; and 14 coauthors

"The 30 Doradus Molecular Cloud at 0.4 pc Resolution with the Atacama Large Millimeter/submillimeter Array: Physical Properties and the Boundedness of CO-emitting Structures".

ApJ,

932, 47

Published

(2022). <https://doi.org/10.3847/1538-4357/ac723a>

(O)

176 \*Glowacki, M.; Collier, J. D.; Kazemi-Moridani, A.; Frank, B.; Roberts, H.; Darling, J.; Klöckner, H. -R.; Adams, N.; Baker, A. J.; Bershadsky, M.; and 57 coauthors

"Looking at the Distant Universe with the MeerKAT Array: Discovery of a Luminous OH Megamaser at  $z > 0.5$ ".

ApJ,

931, L7

Published

(2022). <https://doi.org/10.3847/2041-8213/ac63b0>

(O)

177 Staveley-Smith, L.; Bond, E.; Bekki, K.; Westmeier, T.

"A search for annihilating dark matter in 47 Tucanae and Omega Centauri".

PASA,

39, e026

Published

(2022). <https://doi.org/10.1017/pasa.2022.23>

(P)

178 \*Nosrati, H.; Smith, S.; Hayman, D.

"Space Observation by Australia Telescope Compact Array: Performance Characterisation using GPS Satellite Observation". In:

*73rd International Astronautical Congress 2022*, Paris, France, 18-22 September 2022,

Published

(2022).

(C)

179 Aruga, M.; Sano, H.; Fukui, Y.; Reynoso, E. M.; Rowell, G.; Tachihara, K.

"Molecular and Atomic Clouds Associated with the Gamma-Ray Supernova Remnant Puppis A".

ApJ,

938, 94

Published

(2022). <https://doi.org/10.3847/1538-4357/ac90c6>

(C, P)

180 \*Goncharov, B.; Thrane, E.; Shannon, R. M.; Harms, J.; Bhat, N. D. R.; Hobbs, G.; Kerr, M.; Manchester, R. N.; Reardon, D. J.; Russell, C. J.; and 2 coauthors

"Consistency of the Parkes Pulsar Timing Array Signal with a Nanohertz Gravitational-wave Background"

ApJ,

932, L22

Published

(2022). <https://doi.org/10.3847/2041-8213/ac76bb>

(P)

181 \*Caleb, M.; Heywood, I.; Rajwade, K.; Malenta, M.; Stappers, B. W.; Barr, E.; Chen, W.; Morrello, V.; Sanidas, So.; van den Eijnden, J and 12 coauthors

"Discovery of a radio-emitting neutron star with an ultra-long spin period of 76 s".

Nat. Astron.,

6, 828-836

Published

(2022). <https://doi.org/10.1038/s41550-022-01688-x>

(A)

---

182 \*Tian, J.; Anderson, G. E.; Hancock, P. J.; Miller-Jones, J. C. A.; Sokolowski, M.; Swainston, N. A.; Rowlinson, A.; Williams, A.; Kaplan, D. L.; Hurley-Walker, N.; and 8 coauthors

"High time resolution search for prompt radio emission from the long GRB 210419A with the Murchison Widefield Array".

MNRAS,

514, 2756-2768

Published

(2022). <https://doi.org/10.1093/mnras/stac1483>

(O)

---

183 \*Moss, V. A.;

"The quest for an autonomous ASKAP: automating the next-generation of survey telescopes". In:

*Proceedings of the ESA/ESO SCOPS Workshop, SCIOps 2022, Garching, Germany, 16-20 May 2022,*

Published Online

(2022).

(A)

---

184 \*Chaubal, P. S.; Reichardt, C. L.; Gupta, N.; Ansarinejad, B.; Aylor, K.; Balkenhol, L.; Baxter, E. J.; Bianchini, F.; Benson, B. A.; Bleem, L E.; and 33 coauthors

"Improving Cosmological Constraints from Galaxy Cluster Number Counts with CMB-cluster-lensing Data: Results from the SPT-SZ Survey and Forecasts for the Future".

ApJ,

931, 139

Published

(2022). <https://doi.org/10.3847/1538-4357/ac6a55>

(O)

---

185 \*Nosrati, H.; Smith, S.; Hayman, D.; Horiuchi, S.; Hellicar, A.

"Bi-static Radar Interferometric Localization of MEO and GEO Space Debris using Australia Telescope Compact Array". In:

*Advanced Maui Optical and Space Surveillance Technologies, Maui, Hawaii, 27-30 September 2022,*

Published Online

(2022).

(C)

---

186 Horesh, A.; Burger, N.; Sfaradi, I.; Gaensler, B.; Murphy, T.; Leung, J.; O'Brien, A.; Kaplan, D.; and on behalf of the larger VAST collaboration

"Late-time radio detection of the TDE AT2018hyz by the VAST (ASKAP) project".

The Astronomer's Telegraph,

#15307,

Published

(2022). (A)

---

187 \*Carilli, C. L.; Nikolic, B.; Thyagarajan, N.

"Image-plane self-calibration in interferometry".

J Opt Soc Am.,

39, 2214-2223

Published

(2022). <https://doi.org/10.1364/JOSAA.469858> (O)

---

188 \*Morgan, J. S.; Chhetri, R.; Ekers, R.

"A census of compact sources at 162 MHz: First data release from the MWA Phase II IPS Survey".

PASA,

39, e063

Published

(2022). <https://doi.org/10.1017/pasa.2022.56> (O)

---

189 Quici, B.; Turner, R. J.; Seymour, N.; Hurley-Walker, N.; Shabala, S.; Ishwara-Chandra, C. H.

"Selecting and modelling remnant AGNs with limited spectral coverage".

MNRAS,

514, 3466-3484

Published

(2022). <https://doi.org/10.1093/mnras/stac1328> (C)

---

190 \*Norris, R.; Fuller, R.; Hamacher, D.; Leaman, T.; Anderson, G. M.

"The Role of Astronomy in Australian Indigenous Knowledge".

Oxford Handbook of Indigenous Archaeologies: Global Perspectives,

Submitted

(2022). (O)

---

191 \*Abbott, R.; Abbott, T. D.; Acernese, F.; Ackley, K.; Adams, C.; Adhikari, N.; Adhikari, R. X.; Adya, V. B.; Affeldt, C.; Agarwal, D.; and 1629 coauthors

"Narrowband Searches for Continuous and Long-duration Transient Gravitational Waves from Known Pulsars in the LIGO-Virgo Third Observing Run".

ApJ,

932 133

Published

(2022). <https://doi.org/10.3847/1538-4357/ac6ad0>

(O)

192 \*O'Neill, T. J.; Indebetouw, R.; Sandstrom, K.; Bolatto, A. D.; Jameson, K. E.; Carlson, L. R.; Finn, M. K.; Meixner, M.; Sabbi, Sewilo, M

"Sequential Star Formation in the Young SMC Region NGC 602: Insights from ALMA".

ApJ,

938, 82

Published

(2022). <https://doi.org/10.3847/1538-4357/ac8d93>

(O)

193 Hosseinzadeh, G.; Sand, D. J.; Lundqvist, P.; Andrews, J. E.; Bostroem, K. A.; Dong, Y.; Janzen, D.; Jencson, J. E.; Howell, D. A.; McCully, C.; and 18 coauthors

"Constraining the Progenitor System of the Type Ia Supernova 2021aefx".

ApJ,

933, L45

Published

(2022). <https://doi.org/10.3847/2041-8213/ac7cef>

(C)

194 Sun, J.; Leroy, A. K.; Rosolowsky, E.; Hughes, A.; Schinnerer, E.; Schruba, A.; Koch, E. W.; Blanc, G. A.; Chiang, I. -D.; Groves, B.; and 28 coauthors

"Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective".

AJ,

164, 43

Published

(2022). <https://doi.org/10.3847/1538-3881/ac74bd>

(C)

195 Park, H. -J.; Oh, S. -H.; Wang, J.; Zheng, Y.; Zhang, H. -X.; de Blok, W. J. G.

"Gas dynamics and star formation in NGC 6822".

AJ,

164, 82

Published

(2022). <https://doi.org/10.3847/1538-3881/ac7c1b>

(C)

196 \*Leung, J.; Wang, Z.; An, T.; Deller, A.; Ghirlanda, G.; Giarrantana, S.; Giroletti, M.; Kaplan, D. L.; Lenc, E.; Murphy, T.; and 3 coauthors

"GRB 220627A: ATCA detection of radio counterpart".

GCN,

32341

Published

(2022). (C)

---

197 Walker, K.; Reardon, D. J.; Thrane, E.; Smith, R.

"Orbital Dynamics and Extreme Scattering Event Properties from Long-term Scintillation Observations of PSR J1603-7202".

ApJ,

933, 16

Published

(2022). <https://doi.org/10.3847/1538-4357/ac69c6> (P)

---

198 Bright, J.; Russell, T.; Tremou, E.; Fender, R.; Woudt, P.; Miller-Jones, J.; Del Santo, M.; Marino, A.

"Further radio detections of the AMXP MAXI J1816-195 from MeerKAT and ATCA".

The Astronomer's Telegram,

15484

Published

(2022). (C)

---

199 Gong, H.

"Discovery of a Compact X-Ray Object with a 614 s Periodicity in the Direction of the Galactic Center".

ApJ,

933, 240

Published

(2022). <https://doi.org/10.3847/1538-4357/ac75df> (C)

---

200 \*Hyland, L. J.; Reid, M. J.; Ellingsen, S. P.; Rioja, M. J.; Dodson, R.; Orosz, G.; Masson, C. R.; McCallum, J. M.

"Inverse Multiview. I. Multicalibrator Inverse Phase Referencing for Microarcsecond Very Long Baseline Interferometry Astrometry".

ApJ,

932, 52

Published

(2022). <https://doi.org/10.3847/1538-4357/ac6d5b> (O)

---

- 201 \*Cendes, Y.; Berger, E.; Alexander, K.; Gomez, S.; Hajela, A.; Chornock, R.; Laskar, T.; Margutti, R.; Metzger, B.; Beitenholz, M.; and 2 coauthors  
 "A Mildly Relativistic Outflow Launched Two Years after Disruption in Tidal Disruption Event AT2018hyz".  
 ApJ,  
 938, 28 Published  
 (2022). [\(C\)](https://doi.org/10.3847/1538-4357/ac88d0)
- 
- 202 \*Rigney, J.; Ramsay, G.; Carley, E. P.; Doyle, J. G.; Gallagher, P. T.; Wang, Y.; Pritchard, J.; Murphy, T.; Lenc, E.; Kaplan, D.  
 "Searching for stellar flares from low mass stars using ASKAP and TESS".  
 MNRAS,  
 516, 540-549 Published  
 (2022). [\(A\)](https://doi.org/10.1093/mnras/stac2143)
- 
- 203 \*Niu, C. -H.; Agarwal, K.; Li, D.; Zhang, X.; Chatterjee, S.; Tsai, C. -W.; Yu, W.; Law, C. J.; Burke-Spolar, S.; Cordes, J. M.; and 25 coauthors  
 "A repeating fast radio burst associated with a persistent radio source".  
 Nature,  
 606, 873-877 Published  
 (2022). [\(O\)](https://doi.org/10.1038/s41586-022-04755-5)
- 
- 204 \*Nguyen, H.; Rugel, M. R.; Murugesan, C.; Menten, K. M.; Brunthaler, A.; Urquhart, J. S.; Dokara, R.; Dzib, S. A.; Gong, Y.; Khan, S.; and 8 coauthors  
 "A global view on star formation: The GLOSTAR Galactic plane survey. V. 6.7 GHz methanol maser catalogue".  
 A&A,  
 666, A59 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202244115)
- 
- 205 \*Zhang, L.; Ridolfi, A.; Blumer, H.; Freire, P.; Manchester, R. N.; McLaughlin, M.; Kremer, K.; Cameron, A. D.; Zhang, Z.; Behrend, J.; and 24 coauthors  
 "Radio detection of an elusive millisecond pulsar in the Globular Cluster NGC 6397".  
 ApJ,  
 934, L21 Published  
 (2022). [\(P\)](https://doi.org/10.3847/2041-8213/ac81c3)

- 206 \*Velović, V.; Filipović, M. D.; Barnes, L.; Norris, R. P.; Tremblay, C. D.; Heald, G.; Rudnick, L.; Shabala, S. S.; Pannuti, T. G.; Andernach H.; and 18 coauthors  
 "Collimation of the kiloparsec-scale radio jets in NGC 2663".  
 MNRAS,  
 516, 1865-1880 Published  
 (2022). [\(A, C\)](https://doi.org/10.1093/mnras/stac2012)
- 
- 207 \*Dickey, J. M.; West, J.; Thomson, A. J. M.; Landecker, T. L.; Bracco, A.; Carretti, E.; Han, J. L.; Hill, A. S.; Ma, Y. K.; Mao, S. A.; and 7 coauthors  
 "Structure in the Magnetic Field of the Milky Way Disk and Halo Traced by Faraday Rotation".  
 ApJ,  
 940, 75 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac94ce)
- 
- 208 \*Koribalski, B. S.  
 "The technological and scientific development of ASKAP". In:  
*2022 3rd URSI Atlantic and Asia Pacific Radio Science Meeting (AT-AP-RASC)* Gran Canaria, Spain, 30 May-4 June 2022, Published Online  
 (2022). [\(A\)](https://doi.org/10.23919/AT-AP-RASC54737.2022.9814179)
- 
- 209 \*Prabu, S.; Hancock, P.; Zhang, X.; Tingay, S. J.; Hodgson, T.; Crosse, B.; Johnston-Hollitt, M.  
 "Improved sensitivity for space domain awareness observations with the murchison widefield array".  
 Adv. Space Res.,  
 70, 812-824 Published  
 (2022). [\(O\)](https://doi.org/10.1016/j.asr.2022.05.013)
- 
- 210 \*Spiewak, R.; Bailes, M.; Miles, M. T.; Parthasarathy, A.; Reardon, D. J.; Shamohammadi, M.; Shannon, R. M.; Bhat, N. D. R.; Buchner, S.; Cameron, A. D.; and 10 coauthors  
 "The MeerTime Pulsar Timing Array: A census of emission properties and timing potential".  
 PASA,  
 39, e027 Published  
 (2022). [\(O\)](https://doi.org/10.1017/pasa.2022.19)

211 \*Gupta, V.; Flynn, C.; Farah, W.; Bailes, M.; Deller, A. T.; Day, C. K.; Lower, M. E.

"The ultranarrow FRB20191107B, and the origins of FRB scattering".

MNRAS,

514, 5866-5878

Published

(2022). <https://doi.org/10.1093/mnras/stac1720>

(O)

---

212 \*Bonafede, A.; Brunetti, G.; Rudnick, L.; Vazza, F.; Bourdin, H.; Giovannini, G.; Shimwell, T. W.; Zhang, X.; Mazzotta, P.; Simionescu, A.; and 19 coauthors

"The Coma Cluster at LOFAR Frequencies. II. The Halo, Relic, and a New Accretion Relic".

ApJ,

933, 218

Published

(2022). <https://doi.org/10.3847/1538-4357/ac721d>

(O)

---

213 \*Dey, S.; Goyal, A.; Malek, K.; Galvin, T. J.; Seymour, N.; Diaz Santos, T.; Piotrowska, J.; Charmandaris, V.

"Low-frequency Radio Continuum Imaging and SED Modeling of 11 LIRGs: Radio-only and FUV to Radio Bands".

ApJ,

938, 152

Published

(2022). <https://doi.org/10.3847/1538-4357/ac82f2>

(O)

---

214 Pennock, C. M.; van Loon, J. T.; Anih, J. O.; Maitra, C.; Haberl, F.; Sansom, A. E.; Ivanov, V. D.; Cowley, M. J.; Afonso, J.; Antón, S.; and 7 coauthors

"The VMC survey - XLIX. Discovery of a population of quasars dominated by nuclear dust emission behind the Magellanic Clouds".

MNRAS,

515, 6046-6065

Published

(2022). <https://doi.org/10.1093/mnras/stac2096>

(A)

---

215 \*James, C. W.; Ghosh, E. M.; Prochaska, J. X.; Bannister, K. W.; Bhandari, S.; Day, C. K.; Deller, A. T.; Glowacki, M.; Gordon, A. C.; Heintz, K. E.; and 5 coauthors

"A measurement of Hubble's Constant using Fast Radio Bursts".

MNRAS,

516, 4862-4881

Published

(2022). <https://doi.org/10.1093/mnras/stac2524>

(O)

---

216 \*Carotenuto, F.; Corbel, S.; Tzioumis, A.

"The black hole X-ray binary MAXI J1348-630 in quiescence".

MNRAS,

517, L21-L25

Published

(2022). <https://doi.org/10.1093/mnrasl/slac087>

(C)

---

217 \*Zwaan, M.; Ivison, R.; Peroux, C.; Chen, J.; Klitsch, A.; Hamanowicz, A.; Szakacs, R.; Weng, S.; Biggs, A.; Smail, I.

"ALMACAL: Surveying the Universe with ALMA Calibrator Observations".

The Messenger,

186, 10-13

Published

(2022). <https://doi.org/10.18727/0722-6691/5256>

(O)

---

218 \*Frost, A. J.; Lau, R. M.; Burtscher, L.; Packham, C.; Tasker, E. J.; Rees, G. A.; Moss, V. A.; Kobayashi, R.

"IR 2022: An infrared-bright future for ground-based IR observatories in the era of JWST".

Nat. Astron.,

6, 772-773

Published Online

(2022). <https://doi.org/10.1038/s41550-022-01733-9>

(O)

---

219 Crawford, F.; Hisano, S.; Golden, M.; Kikunaga, T.; Laity, A.; Zoeller, D.;

"Four New Fast Radio Bursts Discovered in the Parkes 70-cm Pulsar Survey Archive".

MNRAS,

515, 3698-3702

Published

(2022). <https://doi.org/10.1093/mnras/stac2101>

(P)

---

220 Cala, R. A.; Gómez, J. F.; Miranda, L. F.; Uscanga, L.; Breen, S. L.; Dawson, J. R.; de Gregorio-Monsalvo, I.; Imai, H.; Qiao, H. -H.; Suárez, O.

"Searching for nascent planetary nebulae: OHPNe candidates in the SPLASH survey".

MNRAS,

516, 2235-2251

Published

(2022). <https://doi.org/10.1093/mnras/stac2341>

(C)

---

221 \*Wang, Z.; Murphy, T.; Kaplan, D. L.; Bannister, K. W.; Lenc, E.; Leung, J. K.; O'Brien, A.; Pintaldi, S.; Pritchard, J.; Stewart, A. J.; and 1 coauthor

"A pilot ASKAP survey for radio transients towards the Galactic Centre".

MNRAS,

516, 5972-5988

Published

(2022). <https://doi.org/10.1093/mnras/stac2542>

(A)

---

222 \*Péroux, C.; Weng, S.; Karki, A.; Augustin, R.; Kulkarni, V. P.; Szakacs, R.; Klitsch, A.; Kamanowicz, A.; Fresco, A. Y.; Zwaan, M. A.; and 9 coauthors

"MUSE-ALMA haloes VII: survey science goals & design, data processing and final catalogues".

MNRAS,

516, 5618-5636

Published

(2022). <https://doi.org/10.1093/mnras/stac2546>

(O)

---

223 Leto, P.; Osokinova, L. M.; Buemi, C. S.; Shultz, M. E.; Cavallaro, F.; Trigilio, C.; Umana, G.; Fossati, L.; Pillitteri, I.; Krčíčka, J.; and 13 coauthors

"Discovery and origin of the radio emission from the multiple stellar system KQ Vel".

MNRAS,

515, 5523-5538

Published

(2022). <https://doi.org/10.1093/mnras/stac2163>

(C)

---

224 Hayakawa, T.; Fukui, Y.

"Metallicity of the intermediate velocity HI clouds derived based on the sub-mm dust emission for the whole sky".

MNRAS,

Submitted

(2022). (P)

---

225 van den Eijnden, J.; Degenaar, N.; Russell, T. D.; Miller-Jones, J. C. A.; Rouco Escorial, A.; Wijnands, R.; Sivakoff, G. R.; Hernández Santisteban, J. V.

"Radio monitoring of transient Be/X-ray binaries and the inflow-outflow coupling of strongly magnetized accreting neutron stars".

MNRAS,

516, 4844-4861

Published

(2022). <https://doi.org/10.1093/mnras/stac2518>

(C)

---

226 \*Whittam, I. H.; Jarvis, M. J.; Hale, C. L.; Prescott, M.; Morabito, L. K.; Heywood, I.; Adams, N. J.; Afonso, J.; An, F.; Ao, Y.; and 17 coauthors

"MIGHTEE: the nature of the radio-loud AGN population".

MNRAS,

516, 245-263

Published

(2022). <https://doi.org/10.1093/mnras/stac2140>

(O)

---

227 \*Hurley-Walker, N.; Galvin, T. J.; Duchesne, S. W.; Zhang, X.; Morgan, J.; Hancock, P. J.; An, T.; Franzen, T. M. O.; Heald, G.; Ross, K.; and 8 coauthors

"GaLactic and Extragalactic All-sky Murchison Widefield Array survey eXtended (GLEAM-X) I: Survey description and initial data release".

PASA,

39, e035

Published

(2022). <https://doi.org/10.1017/pasa.2022.17>

(O)

---

228 Joseph, P.; Sreekumar, P.; Stalin, C. S.; Paul, K. T.; Mondal, C.; George, K.; Mathew, B.

"UVIT view of Centaurus A: a detailed study on positive AGN feedback".

MNRAS,

516, 2300-2313

Published

(2022). <https://doi.org/10.1093/mnras/stac2388>

(P)

---

229 \*Zhou, D. J.; Han, J. L.; Zhang, B.; Lee, K. J.; Zhu, W. W.; Li, D.; Jing, W. C.; Wang, W. -Y.; Zhang, Y. K.; Jiang, J. C.; and 8 coauthors

"FAST Observations of an Extremely Active Episode of FRB 20201124A: I. Burst Morphology".

RAA,

22, 124001

Published

(2022). <https://doi.org/10.1088/1674-4527/ac995d>

(O)

---

230 \*Zhang, Y. -K.; Wang, P.; Feng, Y.; Zhang, B.; Li, D.; Tsai, C. -W.; Niu, C. -H.; Luo, R.; Yao, J. -M.; Zhu, W. -W.; 10 coauthors

"FAST Observations of an Extremely Active Episode of FRB 20201124A. II. Energy Distribution".

RAA,

22, 124002

Published

(2022). <https://doi.org/10.1088/1674-4527/ac98f7>

(O)

---

- 231 \*Jiang, J. -C.; Wang, W. -Y.; Xu, H.; Xu, J. -W.; Zhang, C. -F.; Wang, B. -J.; Zhou, D. -J.; Zhang, Y. -K.; Niu, J. -R.; Lee, K. -J.; and 19 coauthors  
 "FAST Observations of an Extremely Active Episode of FRB 20201124A. III. Polarimetry".  
 RAA,  
 22, 12 Published  
 (2022). [\(O\)](https://doi.org/10.1088/1674-4527/ac98f6)
- 
- 232 \*Niu, J. -R.; Zhu, W. -W.; Zhang, B.; Yuan, M.; Zhou, D. -J.; Zhang, Y. -K.; Jiang, J. -C.; Han, J. L.; Li, D.; Lee, K. -J.; and 13 coauthors  
 "FAST Observations of an Extremely Active Episode of FRB 20201124A. IV. Spin Period Search".  
 RAA,  
 22, 124004 Published  
 (2022). [\(O\)](https://doi.org/10.1088/1674-4527/ac995d)
- 
- 233 \*Tate, J.; Keel, W.C.; O'Keeffe, M.; Wong, I. O.; Andernach, H.; Banfield, J. K.; Moiseev, A.; Shablovicnkaya, E.; Uklein, R.; Malygin, E. and 4 coauthors  
 "Here Be SDRAGNs - Hubble Space Telescope Observations of Spiral-Galaxy Hosts of Large Double Radio Sources".  
 MNRAS,  
 Submitted  
 (2022). (A)
- 
- 234 \*Yao, J.; Coles, W. A.; Manchester, R. N.; Stinebring, D. R.; Kramer, M.; Wang, N.; Li, D.; Zhu, W.; Feng, Y.; Yuan, J.; and 1 coauthor  
 "Interstellar scintillation and polarization of PSR B0656+14 in the Monogem Ring".  
 ApJ,  
 939, 75 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac9667)
- 
- 235 \*Abbott, R.; Abe, H.; Acernese, F.; Ackley, K.; Adhikari, N.; Adhikari, R. X.; Adkins, V. K.; Adya, V. B.; Affeldt, C.; Agarwal, D.; and 1689 coauthors  
 "Searches for Gravitational Waves from Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs".  
 ApJ,  
 935, 1 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac6acf)

236 \*Xu, H.; Niu, J. R.; Chen, P.; Lee, K. J.; Zhu, W. W.; Dong, S.; Zhang, B.; Jiang, J. C.; Wang, B. J.; Xu, J. W.; and 64 coauthors

"A fast radio burst source at a complex magnetized site in a barred galaxy".

Nature,

609, 685-688

Published

(2022). <https://doi.org/10.6084/m9.figshare.19688854>

(O)

237 \*Pasini, T.; Edler, H. W.; Brüggen, M.; de Gasperin, F.; Botteon, A.; Rajpurohit, K.; van Weeren, R. J.; Gastaldello, F.; Gaspari, M.; Brunetti, G.; and 7 coauthors

"Particle re-acceleration and diffuse radio sources in the galaxy cluster Abell 1550".

A&A,

663, A105

Published

(2022). <https://doi.org/10.1051/0004-6361/202243833>

(O)

238 \*Rozgonyi, K.; Dodson, R.; Meyer, M.; Mitchell, D.; Roychowdhury, S.; Tobar, R.

"Proof-of-concept Gridded Visibility Stacking Pipeline for Deep Spectral Line Interferometric Imaging". In:

*Proceedings of Astronomical Data Analysis Software and Systems XXX. ASP Conference Series*, online, 8-12 November 2020,

532, 341

Published

(2022). (A)

239 \*Heesen, V.; Staffehl, M.; Basu, A.; Beck, R.; Stein, M.; Tabatabaei, F. S.; Hardcastle, M. J.; Chyží, K. T.; Shimwell, T. W.; Adebarh, an 17 coauthors

"Nearby galaxies in the LOFAR Two-metre Sky Survey. I. Insights into the non-linearity of the radio-SFR relation".

A&A,

664, A83

Published

(2022). <https://doi.org/10.1051/0004-6361/202142878>

(O)

240 \*Laskar, T.; Escorial, A. R.; Schroeder, G.; Fong, W. -f.; Berger, E.; Veres, P.; Bhandari, S.; Rastinejad, J.; Kilpatrick, C. D.; Tohuvavohu, A.; and 7 coauthors

"The First Short GRB Millimeter Afterglow: The Wide-angled Jet of the Extremely Energetic SGRB 211106A".

ApJ,

935, L11

Published

(2022). <https://doi.org/10.3847/2041-8213/ac8421>

(C)

241 \*Wu, Y. -M.; Chen, Z. -C.; Huang, Q. -G.; Zhu, Z.; Bhat, N. D. R.; Feng, Y. Hobbs, G.; Manchester, R. N.; Russell, C. J.; Shannon, R.

"Constraining ultralight vector dark matter with the Parkes Pulsar Timing Array second data release".

Phys. Rev. D,

106, L081101

Published

(2022). <https://doi.org/10.1103/PhysRevD.106.L081101>

(P)

242 \*Ryder, S. D.; Bannister, K. W.; Bhandari, S.; Deller, A. T.; Ekers, R. D.; Glowacki, M.; Gordon, A. C.; Gourdji, K.; James, C. W.; and 12 coauthors

"Probing the distant universe with a very luminous fast radio burst at redshift 1".

ApJ,

Submitted

(2022). (A)

243 \*Driessen, L. N.; Heald, G.; Duchesne, S. W.; Murphy, T.; Lenc, E.; Leung, J. K.; Moss, V. A.

"Detection of radio emission from stars via proper-motion searches".

PASA,

40, e036

Submitted

(2022). <https://doi.org/10.1017/pasa.2023.26>

(A)

244 \*Driessen, L. N.; Buckley, D. A. H.; Caleb, M.; Chen, H.; Gromadzki, M.; Jankowski, F.; Kraan-Korteweg, R. C.; Palmerio, J.; Rajwade, K. M.; Stappers, B. W.; and 9 coauthors

"MTP0019: the first FRB sub-arcsecond localised with MeerKAT".

MNRAS,

Submitted

(2022). (O)

245 \*Lalbakhsh, A.; Afzal, M. U.; Esselle, K. P.; Smith, S. L.

"All-Metal Wideband Frequency-Selective Surface Bandpass Filter for TE and TM Polarizations".

IEEE,

70, 2790-2800

Published

(2022). <https://doi.org/10.1109/TAP.2021.3138256>

(O)

246 \*Dahanayaka, T.; Wang, Z.; Jourjon, G.; Seneviratne, S.

"Inline Traffic Analysis Attacks on DNS over HTTPS". In:

*IEEE 47th IEEE Conference on Local Computer Networks (LCN)*, Edmonton, Canada, 26-29 September 2022,

Published Online

(2022). (O)

---

247 \*Kamphuis, P.; Jütte, E.; Heald, G. H.; Ruiz, N. H.; Józsa, G. I. G.; de Blok, W. J. G.; Serra, P.; Marasco, A.; Dettmar, R. -J.; Pingel, N. M. and Oosterlook, T.; 4 coauthors

"HALOGAS: Strong constraints on the neutral gas reservoir and accretion rate in nearby spiral galaxies".

A&A,

668, A182

Published

(2022). <https://doi.org/10.1051/0004-6361/202140704> (O)

---

248 \*Leung, J.; Murphy, T.; Lenc, E.; Anderson, G.

"GRB 221009A: ATCA radio spectrum".

GCN,

32766

Published

(2022). (C)

---

249 Bhandari, S.; Laskar, T.; Alexander, K. D.; Berger, E.; Chornock, R.; Coppejans, D.; Drout, M.; van Eerten, H.; Fong, W.; Guidorzi, C.; and 4 coauthors

"GRB 221009A: ATCA detection"

GCN,

32763

Published

(2022). (C)

---

250 \*Leung, J.; Lenc, E.; Murphy, T.

"GRB 221009A/Swift J1913.1+1946: low-frequency ASKAP observations".

GCN,

32736

Published

(2022). (C)

---

251 \*Leung, J.; Wang, Z.; Lenc, E.; Murphy, T.

"GRB 220921A: ATCA detection of radio counterpart".

GCN,

32618

Published

(2022). (C)

---

252 \*Yao, H. F. M.; Cluver, M. E.; Jarett, T. H.; Józsa, G. I. G.; Santos, M. G.; Marchetti, L.; Brown, M. J. I.; Gordon, Y. A.; Brough, S.; Hopkins, A. M.; and 3 coauthors

"Connecting MeerKAT Radio Continuum Properties to GAMA Optical Emission-line and WISE Mid-infrared Activity".

ApJ,

939, 26

Published

(2022). <https://doi.org/10.3847/1538-4357/ac8790> (O)

---

253 \*Moss, V. A.; Trenham, C. E.; Hotan, A. W.; Kobayashi, R.; Rees, G. A.; Tremblay, C. D.; Burtscher, L.; Ekers, R. D.

"The Path to a More Accessible and Inclusive Future of Meetings in Astronomy". In:

*2nd Workshop on Astronomy Beyond the Common Senses for Accessibility and Inclusion*, Online, 17-18 November, 2021,

Published

(2022). (O)

---

254 \*Adams, E. A. K.; Adebahr, B.; de Blok, W. J. G.; Dénes, H.; Hess, K. M.; van der Hulst, J. M.; Kutkin, A.; Lucero, D. M.; Morganti, R.; Moss, V. A.; and 49 coauthors

"First release of Apertif imaging survey data".

A&A,

667, A38

Published

(2022). <https://doi.org/10.1051/0004-6361/202244007> (O)

---

255 \*Kutkin, A. M.; Oosterloo, T. A.; Morganti, R.; Adams, E. A. K.; Mancini, M.; Adebahr, B.; de Blok, W. J. G.; Dénes, H.; Hess, K. M.; van der Hulst, J. M.; and 17 coauthors

"Continuum source catalog for the first APERTIF data release".

A&A,

667, A39

Published

(2022). <https://doi.org/10.1051/0004-6361/202244008> (O)

---

- 256 \*Dénes, H.; Hess, K. M.; Adams, E. A. K.; Kutkin, A.; Morganti, R.; van der Hulst, J. M.; Oosterloo, T. A.; Moss, V. A.; Adebahr, B.; de Blok, W. J. G.; and 20 coauthors  
 "Characterising the Apertif primary beam response".  
 A&A,  
 667, A40 Published  
 (2022). [\(O\)](https://doi.org/10.1051/0004-6361/202244045)
- 
- 257 \*Howard, W. S.; MacGregor, M. A.; Osten, R.; Forbrich, J.; Cranmer, S. R.; Tristan, I.; Weinberger, A. J.; Youngblood, A.; Barclay, T.; Parke Loyd, R. O.; and 3 coauthors  
 "The Mouse That Squeaked: A Small Flare from Proxima Cen Observed in the Millimeter, Optical, and Soft X-Ray with Chandra and ALMA".  
 ApJ,  
 938, 103 Published  
 (2022). [\(O\)](https://doi.org/10.3847/1538-4357/ac9134)
- 
- 258 Basu, A.; Roy, N.; Beuther, H.; Syed, J.; Ott, J.; Soler, J.; Rugel, M. R.  
 "Properties of atomic hydrogen gas in the Galactic plane from THOR 21-cm absorption spectra: a comparison with the high latitude gas".  
 MNRAS,  
 517, 5063-5068 Published  
 (2022). [\(C\)](https://doi.org/10.1093/mnras/stac3043)
- 
- 259 \*Bevins, H. T. J.; Fialkov, A.; de Lera Acedo, E.; Handley, W. J.; Sing, S.; Subrahmanyan, R.; Barkana, R.  
 "Astrophysical constraints from the SARAS 3 non-detection of the cosmic dawn sky-averaged 21-cm signal".  
 Nat. Astron.,  
 6, 1473-1483 Published  
 (2022). [\(O\)](https://doi.org/10.1038/s41550-022-01825-6)
- 
- 260 \*Parkinson, D.; Segal, G.  
 "Detecting complex sources in large surveys using an apparent complexity measure". In:  
*Proceedings IAU Symposium No. 368*, Busan, Rep. of Korea, 2-4 August 2022,  
 Published  
 (2022). [\(A\)](#)

261 \*Rea, N.; Coti Zelati, F.; Dehman, C.; Hurley-Walker, N.; de Martino, D.; Bahramian, A.; Buckley, D. A. H.; Brink, J.; Kawaka, A.; Pons, J. A.; and 7 coauthors

"Constraining the Nature of the 18 min Periodic Radio Transient GLEAM-X J162759.5-523504.3 via Multiwavelength Observations and Magneto-thermal Simulations".

ApJ,

940, 72

Published

(2022). <https://doi.org/10.3847/1538-4357/ac97ea>

(C)

---

262 \*Hu, H.; Kramer, M.; Champion, D. J.; Wex, N.; Parthasarathy, A.; Pennucci, T. T.; Porayko, N. K.; van Straten, W.; Venkatraman Krishnan, V.; Burgay, M.; and 7 coauthors

"Gravitational signal propagation in the double pulsar studied with the MeerKAT telescope".

A&A,

667, A149

Published

(2022). <https://doi.org/10.1051/0004-6361/202244825>

(O)

---

263 \*Lower, M. E.; Johnston, S.; Lyutikov, M.; Melrose, D. B.; Shannon, R. M.; Weltevrede, P.; Caleb, M.; Camilo, F.; Cameron, A. D.; Dai, S.; and 6 coauthors

"A birefringent pair plasma within the near-field environment of a radio-loud magnetar".

Nat. Astron.,

Submitted

(2022).

(P)

---

264 Zhao, Z. -W.; Zhang, J. -G.; Li, Y.; Zou, J. -M.; Zhang, J. -F.; Zhang, X.

"First statistical measurement of the Hubble constant using unlocalized fast radio bursts".

??,

Submitted

(2022).

(A)

---

265 \*Nosrati, H.; Smith, S.; Hayman, D.; Horiuchi, S.

"Bi-Static Radar Interferometry for Space Debris Localisation using Australia Telescope Compact Array". In:

*Progress in Radar Research Workshop*, Adelaide, Australia, 2 to 3 February 2022,

Published

(2022).

(C)

---

266 \*Morokuma-Matsui, K.; Bekki, K.; Wang, J.; Serra, P.; Koyama, Y.; Morokuma, T.; Egusa, F.; For, B. -Q.; Nakanishi, K.; Koribalski, B. S. and 11 coauthors

"CO(J = 1-0) Mapping Survey of 64 Galaxies in the Fornax Cluster with the ALMA Morita Array".

Astrophys. J., Suppl. Ser,

263, 40

Published

(2022). <https://doi.org/10.3847/1538-4365/ac983b>

(O)

---

267 \*Xu, S.; Imai, H.; Yun, Y.; Zhang, B.; Rioja, M. J.; Dodson, R.; Cho, S. -H.; Kim, J.; Cui, L.; Sobolev, A. M.; and 13 coauthors

"The Astrometric Animation of Water Masers toward the Mira Variable BX Cam".

ApJ,

941, 105

Published

(2022). <https://doi.org/10.3847/1538-4357/ac9599>

(O)

---

268 \*Mandilk, A.; Bailes, M.; Deller, A.; Flynn, C.; Gupta, V.; James, A.; Bateman, T.; Caleb, M.; Campbell-Wilson, D.; Day, C.; and 14 coauthors

"FRB20221128A found by UTMOST-NS".

The Astronomer's Telegram,

15783

Published

(2022).

(O)

---

269 \*Moss, V. A.; Balaguer-Nuñez, L.; Bolejko, K.; Burtscher, L.; Carr, A.; Di Teodoro, E. M.; Gregory, B.; Hanko, E.; Hill, A. S.; Hughes, A.; and 5 coauthors

"Around the hybrid conference world in the COVID-19 era".

Nat. Astron.,

6, 1105-1109

Published

(2022). <https://doi.org/10.1038/s41550-022-01806-9>

(O)

---

270 \*Xu, Z. ; Hewitt, J. N.; Chen, K. ; Kim, H. ; Dillon, J. S.; Kern, N. S.; Morales, M. F.; Hazelton, B. J.; Byrne, R. ; Fagnoni, N. ; and 71 coauthors

"Direct Optimal Mapping for 21 cm Cosmology: A Demonstration with the Hydrogen Epoch of Reionization Array".

ApJ,

938, 128

Published

(2022). <https://doi.org/10.3847/1538-4357/ac9053>

(O)

---

271 \*Eppel, F.; Kadler, M.; Ros, E.; Rosch, F.; Hessdoerfer, J.; Benke, P.; Edwards, P. E.; Fromm, C. M.; Giroletti, M.; Gomez, J. L.; and 9 coauthors

"VLBI Scrutiny of a New Neutrino-Blazar Multiwavelength-Flare Coincidence". In:

*Proceedings IAU Symposium No. 375: The Multimessenger Chakra of Blazar Jets*, Kathmandu, Nepal, 5 to 9 December 2022,

Published

(2022). (C)

---

272 \*Hampson, G.; Bunton, J.; Humphrey, D.; Bengston, K.; Jourjon, G.; Bolin, A.; Chen, Y.; Troup, E.; Babich, G.; Van Aardt, J.

"Square Kilometre Array Low Atomic commercial off-the-shelf correlator and beamformer".

JATIS,

8, 011018

Published

(2022). <https://doi.org/10.11117/1.JATIS.8.1.011018> (O)

---

273 \*Tedula, H. M.; Yuen, R.; Wang, N.; Yuan, J. P.; Wen, Z. G.; Yan, W. M.; Wang, S. Q.; Dang, S. J.; Li, D.; Wang, P.; and 9 coauthors

"Emission Variation of a Long-period Pulsar Discovered by the Five-hundred-meter Aperture Spherical Radio Telescope (FAST)".

ApJ,

929, 171

Published

(2022). <https://doi.org/10.3847/1538-4357/ac5f42> (O)

---

274 Reynolds, T. M.; Mattila, S.; Efstathiou, A.; Kankare, E.; Kool, E.; Ryder, S.; Peña-Moñino, L.; Pérez-Torres, M. A.

"Energetic nuclear transients in luminous and ultraluminous infrared galaxies".

A&A,

664, A158

Published

(2022). <https://doi.org/10.1051/0004-6361/202243289> (C)

---

275 Koryukova, T. A.; Pushkarev, A. B.; Plavin, A. V.; Kovalev, Y. Y.

"Tracing Milky Way scattering by compact extragalactic radio sources".

MNRAS,

515, 1736-1750

Published

(2022). <https://doi.org/10.1093/mnras/stac1898> (V)

---

276 Saikia, P.; Russell, D. M.; Baglio, M. C.; Bramich, D. M.; Casella, P.; Diaz Trigo, M.; Ghandi, P.; Jiang, J.; Maccarone, T.; Soria, R.; and 1 coauthors

"A Multiwavelength Study of GRS 1716-249 in Outburst: Constraints on Its System Parameters".

ApJ,

932, 38

Published

(2022). <https://doi.org/10.3847/1538-4357/ac6ce1>

(V)

277 Bacsko, A. -K.; Ros, E.; Kadler, M.; Fromm, C. M.; Boccardi, B.; Perucho, M.; Krichbaum, T. P.; Burd, P. R.; Zensus, J. A.

"Ambilateral collimation study of the twin-jets in NGC 1052".

A&A,

658, A119

Published

(2022). <https://doi.org/10.1051/0004-6361/202141897>

(V)

278 \*Wu, J.; Zhao, G. -Y.; Shen, Z. -Q.; Rioja, M. J.; Dodson, R.; Cho, I.; Zhao, S. -S.; Eubanks, M.; Lu, R. -S.;

"Applications of the Source-Frequency Phase-Referencing Technique for ngEHT Observations".

Galaxies,

11 3

Published

(2022). <https://doi.org/10.3390/galaxies11010003>

(O)

279 \*Mohamadzade, B.; Hayman, D.; Dunning, A.; Smith, S.; Bowen, M.

"Validation of the obtained mutual coupling impedance matrix from CST model of two element array". In:

International PAF & Advanced Receiver Workshop 2022, Sydney, Australia, 15 to 17 November 2022,

Published

(2022).

(O)

280 Wu, Y.; Zhang, B.; Li, J.; Zheng, X. -W.

"Water-maser survey towards off-plane O-rich AGBs around the orbital plane of the Sagittarius stellar stream".

MNRAS,

516, 1881-1893

Published

(2022). <https://doi.org/10.1093/mnras/stac1971>

(T)