Publications 2020

15 Jul 2021

1 *Ackley, K.; Adya, V. B.; Agrawal, P.; Altin, P.; Ashton, G.; Bailes, M.; Baltinas, E.; Barbuio, A.; Beniwal, D.; Blair, C.; and 153 coauthors

"Neutron Star Extreme Matter Observatory: A kilohertz-band gravitational-wave detector in the global network".

PASA,

37, e047

(2020). https://doi.org/10.1017/pasa.2020.39 (O)

---

2 Agarwal, D.; Aggarwal, K.; Burke-Spolaor, S.; Lorimer, D. R.; Garver-Daniels, N.

"FETCH: A deep-learning based classifier for fast transient classification".

MNRAS,

497, 1661-

(2020). https://doi.org/10.1093/mnras/staa1856 (A, P)

---

3 Akahori, T.; Kitayama, T.; Ueda, S.; Izumi, T.; Lee, K.; Kawabe, R.; Kohno, K.; Oguri, M.; Takizawa, M.

"Discovery of radio jets in the Phoenix galaxy cluster center".

PASJ,

72, 62

(2020). https://doi.org/10.1093/pasj/psaa039 (C)

---

4 *Allison, J. R.; Sadler, E. M.; Bellstedt, S.; Davies, L. J. M.; Driver, S. P.; Ellison, S. L.; Huynh, M.; Kapińska, A. D.; Mahony, E. K.; Moss, V. A.; and 11 coauthors

"FLASH early science - discovery of an intervening HI 21-cm absorber from an ASKAP survey of the GAMA 23 field".

MNRAS,

494, 3627-3641

(2020). https://doi.org/10.1093/mnras/staa949 (A)

---

5 *Anderson, C.; Heald, G.; Riseley, C.; Possum Askap Science Team.

"Early science from the POSSUM survey: Shocks, turbulence, and a massive extended reservoir of baryons in the Fornax cluster". In:

The 35th Annual New Mexico Symposium, Socorro, NM. Online, 21 February 2020,

7

(2020). (A)

---

6 *Andreoni, I.; Cooke, J.; Webb, S.; Rest, A.; Pritchard, T.; Caleb, M.; Chang, S.-W.; Farah, W.; Lien, A.; Möller, A.; and 15 coauthors

"Probing the extragalactic fast transient sky at minute time-scales with DECam".

MNRAS,

491, 5852-5866

(2020). https://doi.org/10.1093/mnras/stz3381 (P)

---

7 *Andreoni, I.; Goldstein, D.A.; Kasliwal, M.M.; Nugent, P.E.; Zhou, R.; Newman, J.A.; Bulla, M.; Foucart, F.; Hotokezaka, K.; Nakar, E.; and 42 coauthors

"GROWTH on S190814bv: Deep synoptic limits on the optical/near-infrared counterpart to a neutron star-black hole merger".

ApJ,

890, 131

(2020). https://doi.org/10.3847/1538-4357/ab6a1b (O)

---

8 *Angioni, R.; Ros, E.; Kadler, M.; Ojha, R.; Müller, C.; Edwards, P. G.; Burd, P. R.; Carpenter, B.; Dutka, M. S.; Gulyaev, S.; Hase, H.; Horiuchi, S.; Krauß, F.; Lovell, J. E. J.; Natusch, T.; Phillips, C.; Plötz, C.; Quick, J. F. H.; Plötz, C.; Schulz, R.

"γ-ray emission in radio galaxies under the VLBI scope. II. The relationship between γ-ray emission and parsec-scale jets in radio galaxies".

A&A,

641, 152

(2020). https://doi.org/10.1051/0004-6361/202038236 (V)

---

9 Aydi, E.; Sokolovsky, K.V.; Chomiuk, L.; Steinberg, E.; Li, K.L.; Vurm, I.; Metzger, B.D.; Strader, J.; Mukai, K.; Pejcha, O.; and 32 coauthors

"Direct evidence for shock-powered optical emission in a nova".

NatAs,

4, 776-780

(2020). https://doi.org/10.1038/s41550-020-1070-y (C)

---

10 *Bailes, M.; Jameson, A.; Abbate, F.; Barr, E.D.; Bhat, N.D R.; Bondonneau, L.; Burgay, M.; Buchner, S. J.; Camilo, F.; Champion, D.J.; and 65 coauthors

"The MeerKAT telescope as a pulsar facility: System verification and early science results from MeerTime".

PASA,

37, e028

(2020). https://doi.org/10.1017/pasa.2020.19 (O)

---

11 Barnes, A. T.; Longmore, S. N.; Dale, J. E.; Krumholz, M. R.; Kruijssen, J. M. D.; Bigiel, F.

"Which feedback mechanisms dominate in the high-pressure environment of the central molecular zone?".

MNRAS,

498, 4906-4923

(2020). https://doi.org/10.1093/mnras/staa2719 (M)

---

12 *Battye, R.; Brown, M. L.; Casey, C. M.; Harrison, I.; Jackson, N. J.; Smail, I.; Watson, R. A.; Hales, C. A.; Manning, S. M.; Hung, C. L.; and 18 coauthors

"SuperCLASS - I. The super cluster assisted shear survey: Project overview and data release 1".

MNRAS,

495, 1706–1723

(2020). https://doi.org/10.1093/mnras/staa709

---

13 *Bhandari, S.; Bannister, K. W.; Lenc, Em.; Cho, H.; Ekers, R.; Day, C. K.; Deller, A. T.; Flynn C.; James, C. W.; Macquart, J-P.; Mahony, E. K.; Marnoch, L.; Moss, V. A.; Phillips, C.; Prochaska, J. X.; Qiu; H.; Ryder, S. D; Shannon, R. M.; Tejos, N.; Wong, O. I.;

"Limits on Precursor and Afterglow Radio Emission from a Fast Radio Burst in a Star-forming Galaxy".

ApJ,

901, L20

(2020). https://doi.org/10.3847/2041-8213/abb462 (A)

---

14 *Bhandari, S.; Sadler, E.M.; Prochaska, J.X.; Simha, S.; Ryder, S.D.; Marnoch, L.; Bannister, K.W.; Macquart, Jean-Pierre; Flynn, Chris; and 9 coauthors

"The host galaxies and progenitors of Fast Radio Bursts localized with the Australian Square Kilometre Array Pathfinder".

ApJ,

895, L37

(2020). https://doi.org/10.3847/2041-8213/ab672e (A,C)

---

15 *Bilous, A.V.; Bondonneau, L.; Kondratiev, V.I.; Grießmeier, J.-M.; Theureau, G.; Hessels, J.W.T.; Kramer, M.; van Leeuwen, J.; Sobey, C.; Stappers, B.W.; and 2 coauthors

"A LOFAR census of non-recycled pulsars: extending to frequencies below 80 MHz".

A&A,

635, 75

(2020). https://doi.org/10.1051/0004-6361/201936627 (O)

---

16 *Boersma, O. M.; van Leeuwen, J.; Adams, E. A. K.; Adebahr, B.; Kutkin, A.; Oosterloo, T.; de Blok, W. J. G.; van den Brink, R.; Coolen, A. H. W. M.; Connor, L.; and 19 coauthors

"A search for radio emission from double-neutron star merger GW190425 using Apertif".

A&A,

650, id.A131

(2020). https://doi.org/10.1051/0004-6361/202140578 (O)

---

17 Bogensberger, D.; Ponti, G.; Jin, C.; Belloni, T. M.; Pan, H.; Nandra, K.; Russell, T. D.; Miller-Jones, J. C. A.; Muñoz-Darias, T.; Vynatheya, P.; Vincentelli, F.

"An underlying clock in the extreme flip-flop state transitions of the black hole transient Swift J1658.2-4242".

A&A,

641, 101

(2020). https://doi.org/10.1051/0004-6361/202037657 (C)

---

18 *Bouwhuis, M.; Bannister, K.W.; Macquart, J.-P.; Shannon, R.M.; Kaplan, D.L.; Bunton, J.D.; Koribalski, B.S.; Whiting, M.T.

"A search for fast-radio-burst-like emission from Fermi gamma-ray bursts".

MNRAS,

497, 125-129

(2020). https://doi.org/10.1093/mnras/staa1889 (A)

---

19 *Bray, J. D.; Williamson, A.; Schelfhout, J.; James, C. W.; Spencer, R. E.; Chen, H.; Cropper, B. D.; Gould, K. M. L.; Haungs, A.; Hodder, W.; Howland, T.; Huege, T.; Kenney, D.; McPhail, A.; Mitchell, S.; Nitu, I. C.; Roberts, P.; Tawn, R.; Tickner, J.;

"The SKA particle array prototype: The first particle detector at the Murchison Radio-astronomy Observatory".

NIMPA,

973, id.164168

(2020). https://doi.org/10.1016/j.nima.2020.164168 (O)

---

20 *Bright, J.; Wieringa, M.; Laskar, T.; Margutti, R.; Coppejans, D.; Alexander, K. D.; DeMarchi, L.; Matthews, D.

"NuSTAR constraints on the hard X-ray emission from FBOT AT2020xnd".

Astronomer's Telegram,

#14125,

(2020). (C)

---

21 *Bright, J.; Wieringa, M.; Laskar, T.; Margutti, R.; Coppejans, D.; Alexander, K. D.; DeMarchi, L.; Matthews, D.

"ATCA observations of the fast transient AT2020xnd".

Astronomer's Telegram,

#14125,

(2020). (C)

---

22 *Broderick, J.W.; Shimwell, T.W.; Gourdji, K.; Rowlinson, A.; Nissanke, S.; Hotokezaka, K.; Jonker, P. G.; Tasse, C.; Hardcastle, M.J.; Oonk, J.B.R.; and 59 coauthors

"LOFAR 144-MHz follow-up observations of GW170817".

MNRAS,

494, 5110-5117

(2020). https://doi.org/10.1093/mnras/staa950 (O)

---

23 *Burns, R. A.; Sugiyama, K.; Hirota, T.; Kim, Kee-Tae; Sobolev, A. M.; Stecklum, B.; MacLeod, G. C.; Yonekura, Y.; Olech, M.; Orosz, G.; and 13 coauthors

"A heatwave of accretion energy traced by masers in the G358-MM1 high-mass protostar".

NatAs.,

4, 506-510

(2020). https://doi.org/10.1038/s41550-019-0989-3 (V,C)

---

24 *Cameron, A.D.; Champion, D.J.; Bailes, M.; Balakrishnan, V.; Barr, E.D.; Bassa, C.G.; Bates, S.; Bhandari, S.; Bhat, N.D.R.; Burgay, M.; and 16 coauthors

"The High Time Resolution Universe Pulsar Survey - XVI. Discovery and timing of 40 pulsars from the southern Galactic plane".

MNRAS,

493, 1063-1087

(2020). https://doi.org/10.1093/mnras/staa039 (P)

---

25 *Cameron, A.D.; Li, D.; Hobbs, G.; Zhang, L.; Miao, C.C.; Wang, J.B.; Yuan, M.; Wang, S.; Jacobs Corban, G.; Cruces, M.; and 21 coauthors

"An in-depth investigation of 11 pulsars discovered by FAST".

MNRAS,

495, 3515-3530

(2020). https://doi.org/10.1093/mnras/staa1328 (P)

---

26 *Cantwell, T. M.; Bray, J. D.; Croston, J. H.; Scaife, A. M. M.; Mulcahy, D. D.; Best, P. N.; Brüggen, M.; Brunetti, G.; Callingham, J. R.; Clarke, A. O.; and 15 coauthors

"Low-frequency observations of the giant radio galaxy NGC 6251".

MNRAS,

492, 143-159

(2020). https://doi.org/10.1093/mnras/staa1160 (O)

---

27 Charlot, P.; Jacobs, C. S.; Gordon, D.; Lambert, S.; de Witt, A.; Böhm, J.; Fey, A. L.; Heinkelmann, R.; Skurikhina, E.; Titov, O. and 10 coauthors

"The third realization of the International Celestial Reference Frame by very long baseline interferometry".

A&A,

644, 159

(2020). https://doi.org/10.1051/0004-6361/202038368 (P)

---

28 *Chen, X.; Sobolev, A.M.; Breen, S.L.; Shen, Z-Q.; Ellingsen, S.P.; MacLeod, G.C.; Li, B.; Voronkov, M.A.; Kaczmarek, J.F.; Zhang, J.; and 14 coauthors

"$^{13}CH_3OH$ masers associated with a transient phenomenon in a high-mass young stellar object".

ApJ,

890, L22

(2020). https://doi.org/10.3847/2041-8213/ab72a5 (C)

---

29 Chevance, M.; Madden, S. C.; Fischer, C.; Vacca, W. D.; Lebouteiller, V.; Fadda, D. Galliano, F.; Indebetouw, R.; Kruijssen, J. M. D.; Lee, M. -Y. and 9 coauthors

"The CO-dark molecular gas mass in 30 Doradus".

MNRAS,

494, 5279-5292

(2020). https://doi.org/10.1093/mnras/staa1106 (M)

---

30 *Chhetri, R.; Kimball, A.; Ekers, R.D.; Mahony, E.K.; Sadler, E.M.; Jarrett, T.

"WISE mid-infrared properties of compact active galactic nuclei selected from the high radio frequency AT20G survey".

MNRAS,

494, 923-940

(2020). https://doi.org/10.1093/mnras/staa513 (C)

---

31 *Cho, H.; Macquart, J..; Shannon, R.M.; Deller, A.T.; Morrison, I.S.; Ekers, R.D.; Bannister, K.W.; Farah, W.; Qiu, H.; Sammons, M. W.; and 7 coauthors

"Spectropolarimetric analysis of FRB 181112 at microsecond resolution: Implications for fast radio burst emission mechanism".

ApJ,

891, L38

(2020). https://doi.org/10.3847/2041-8213/ab7824 (A)

---

32 *Clayfield, K.

"CSIRO: our roadmap for space".

JProcRSNSW,

153, 61-64

(2020). (O)

---

33 *Clemens, D. P.; Cashman, L. R.; Cerny, C.; El-Batal, A. M.; Jameson, K. E.; Marchwinski, R.; Montgomery, J.; Pavel, M.; Pinnick, A.; Taylor, B. W.

"The Galactic Plane Infrared Polarization Survey (GPIPS): Data Release 4".

ApJS,

249, 23

(2020). https://doi.org/10.3847/1538-4365/ab9f30 (O)

---

34 *Climent, J.B.; Guirado, J.C.; Azulay, R.; Marcaide, J.M.; Jauncey, D.L.; Lestrade, J.-F.; Reynolds, J.E.

"The milliarcsecond-scale radio structure of AB Dor A".

A&A,

641, 90

(2020). https://doi.org/10.1051/0004-6361/202037542 (V)

---

35 *Connor, L.; van Leeuwen, J.; Oostrum, L. C.; Petroff, E.; Maan, Y.; Adams, E. A. K.; Attema, J. J.; Bast, J. E.; Boersma, O. M.; Dénes, H and 31 coauthors

"A bright, high rotation-measure FRB that skewers the M33 halo".

MNRAS,

499, 4716-4724

(2020). https://doi.org/10.1093/mnras/staa3009 (O)

---

36 *Dai, S.; Johnston, S.; Kerr, M.; Camilo, F.; Cameron, A.; Toomey, L.; Kumamoto, H.

"Discovery of millisecond pulsars in the globular cluster Omega Centauri".

ApJ,

888, L18

(2020). https://doi.org/10.3847/2041-8213/ab621a (P)

---

37 *Dang, S.J.; Yuan, J.P.; Manchester, R.N.; Li, L.; Wang, N.; Wang, J.B.; Hobbs, G.; Liu, Z.Y.; Kou, F.F.

"Results of 12 yr of Pulsar Timing at Nanshan. I".

ApJ,

896, 140

(2020). https://doi.org/10.3847/1538-4357/ab9082 (O)

---

38 *Das, S.; Sardone, A.; Leroy, A. K.; Mathur, S.; Gallagher, M.; Pingel, N. M.; Pisano, D. J.; Heald, G,

"Detection of the Diffuse H I Emission in the Circumgalactic Medium of NGC 891 and NGC 4565".

ApJ,

898, 15

(2020). https://doi.org/10.3847/1538-4357/ab97b9 (O)

---

39 *Day, C.; Deller, A.T.; Shannon, R.M.; Qiu, H.; Bannister, K.W.; Bhandari, S.; Ekers, R.; Flynn, C.; James, C.W.; Macquart, J.-P.; and 3 coauthors

"High time resolution and polarization properties of ASKAP-localized fast radio bursts".

MNRAS,

497, 3335-3350

(2020). https://doi.org/10.1093/mnras/staa2138 (A,C)

---

40 *de Blok, W. J. G.; Athanassoula, E.; Bosma, A.; Combes, F.; English, J.; Heald, G. H.; Kamphius, P.; Koribalski, B. S.; Meurer, G. R.; Román, J. and 36 coauthors

"MeerKAT HI commissioning observations of MHONGOOSE galaxy ESO 302-G014".

A&A,

643, 147

(2020). https://doi.org/10.1051/0004-6361/202038894 (O)

---

41 *de Gasperin, F.; Vink, J.; McKean, J. P.; Asgekar, A.; Avruch, I.; Bentum, M. J.; Blaauw, R.; Bonafede, A.; Broderick, J. W.; Brüggen, M.; and 52 coauthors

"Cassiopeia A, Cygnus A, Taurus A, and Virgo A at ultra-low radio frequencies".

A&A,

635, 150

(2020). https://doi.org/10.1051/0004-6361/201936844 (O)

---

42 de Gregorio-Monsalvo, I.; Huélamo, N.; Pinte, C.; Ribas, A.

"Origin of the emission at centimeter wavelengths in the transitional disk surrounding T Chamaleontis". In:

Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society, 13-15 July, 2020,

365, 135,

(2020). (C)

---

43 de Martino, D.; Papitto, A.; Burgay, M.; Possenti, A.; Coti Zelati, F.; Rea, N.; Torres, D.F.; Belloni, T.M.

"NuSTAR and Parkes observations of the transitional millisecond pulsar binary XSS J12270-4859 in the rotation-powered state".

MNRAS,

492, 5607-5619

(2020). https://doi.org/10.1093/mnras/staa164 (P)

---

44 *Dempsey, J.; Hobbs, G.; Toomey, L.

"Eight Years of the Parkes Pulsar Data Archive". In:

Astronomical Data Analysis Software and Systems XXIX. ASP Conference Series, Groningen, the Netherlands, 6-10 October 2019,

527, 259

(2020). (P)

---

45 Dempsey, J.; McClure-Griffiths, N. M.; Jameson, K.; Buckland-Willis, F.

"Cold H I ejected into the Magellanic Stream".

MNRAS,

496, 913-920

(2020). https://doi.org/10.1093/mnras/staa1602 (C)

---

46 di Teodoro, E.M.; MuClure-Griffiths, N.M.; Lockman, F.J.; Armillotta, L.

"Cold gas in the Milky Way's nuclear wind".

Nature,

584, 364–367

(2020). https://doi.org/10.1038/s41586-020-2595-z (C)

---

47 *Ding, H.; Deller, A. T.; Lower, M. E.; Flynn, C.; Chatterjee, S.; Brisken, W.; Hurley-Walker, N.; Camilo, F.; Sarkissian, J.; Gupta, V.

"A magnetar parallax".

MNRAS,

498, 3736-3743

(2020). https://doi.org/10.1093/mnras/staa2531 (P)

---

48 *Dobie, D.; Ho, A,; Perley, D.; O'Brien, A.; Kaplan, D.; Ravi, V.

"Continued detection of AT2020xnd at 34 GHz".

Astronomer's Telegram,

#14242,

(2020). (C)

---

49 *Dobie, D.; Kaplan, D.L.; Hotokezaka, K.; Murphy, T.; Deller, A.; Hallinan, G.; Nissanke, S.

"Constraining properties of neutron star merger outflows with radio observations".

MNRAS,

494, 2449-2464

(2020). https://doi.org/10.1093/mnras/staa789 (O)

---

50 *Dobie, D.; O'Brien, A.; Ho, A.; Perley, D. A.; Kaplan, D.; Yao, Y.; Ravi, V.

"Detection of AT2020xnd at 34 GHz".

Astronomer's Telegram,

#14163,

(2020). (C)

---

51 *Dobie, D.; O'Brien, A.; Ho, A.; Perley, D. A.; Kaplan, D.; Yao, Y.; Ravi, V.

"Non-detection of AT2020xnd at 34 GHz".

Astronomer's Telegram,

#14139,

(2020). (C)

---

52 *Donner, J. Y.; Verbiest, J. P. W.; Tiburzi, C.; Osłowski, S.; Künsemöller, J.; Bak Nielsen, A. -S.; Grießmeier, J. -M.; Serylak, M.; Kramer, M.; Anderson, J. M.; and 10 coauthors

"Dispersion measure variability for 36 millisecond pulsars at 150 MHz with LOFAR".

A&A,

644, 153

(2020). https://doi.org/10.1051/0004-6361/202039517 (O)

---

53 Driessen, L. N.; McDonald, I.; Buckley, D. A. H.; Caleb, M.; Kotze, E. J.; Potter, S. B.; Rajwade, K. M.; Rowlinson, A.; Stappers, B. W.; Tremou, E.; and 12 coauthors

"MKT J170456.2-482100: the first transient discovered by MeerKAT".

MNRAS,

491, 560-575

(2020). https://doi.org/10.1093/mnras/stz3027 (P)

---

54 *Drouart, G.; Seymour, N.; Galvin, T.J.; Afonso, J.; Callingham, J.R.; De Breuck, C.; Johnston-Hollitt, M.; Kapińska, A.D; Lehnert, M. D.; Vernet, J.

"The GLEAMing of the first supermassive black holes".

PASA,

37, e026

(2020). https://doi.org/10.1017/pasa.2020.6 (C)

---

55 *Edwards, P.G.; Stevens, J.; Phillips, C.; Reynolds, C.; Kovalev, Y.Y.; Voitsik, P.; Sokolovsky, J.; McCallum, J.; Quick, J., Ojha, R.

"Do RadioAstron detections correlate with flaring states? An initial study of seven southern AGN".

AdSpR.,

65, 739-744

(2020). https://doi.org/10.1016/j.asr.2019.04.010 (C,V)

---

56 *Eisner, N. L.; Barragán, O.; Aigrain, S.; Lintott, C.; Miller, G.; Zicher, N.; Boyajian, T. S.; Bryant, E. M.; Christiansen, J. L.; Feinstein, A. D.; and 40 coauthors

"Planet Hunters TESS I: TOI 813, a subgiant hosting a transiting Saturn-sized planet on an 84-day orbit".

MNRAS,

494, 750–763

(2020). https://doi.org/10.1093/mnras/staa138 (O)

---

57 *Espinasse, M.; Corbel, S.; Kaaret, P. Tremou, E.; Miglior, G.; Plotkin, R. M.; Bright, J.; Tomsick, J.; Tzioumis, A.; Fender, R.; and 7 coauthors

"Relativistic X-Ray Jets from the Black Hole X-Ray Binary MAXI J1820+070".

ApJ,

895, L31

(2020). https://doi.org/10.3847/2041-8213/ab88b6 (O)

---

58 *Eyles, R.A.J.; Birkinshaw, M.; Smolčić, V.; Horellou, C.; Huynh, M.; Butler, A.; Delhaize, J.; Vignali, C.; Pierre, M.

"The XXL Survey: XXXIX. Polarised radio sources in the XXL-South field".

A&A,

633, 6

(2020). https://doi.org/10.1051/0004-6361/201936042 (C)

---

59 *Fan, D.; Budavári, T.; Norris, R. P.; Basu, A.

"Optimal probabilistic catalogue matching for radio sources".

MNRAS,

498, 565-573

(2020). https://doi.org/10.1093/mnras/staa2447 (C)

---

60 Feijen, K.; Rowell, G.; Einecke, S.; Braiding, C.; Burton, M. G.; Maxted, N,; Voisin, F.; Wong, G. F.

"Arcminute-scale studies of the interstellar gas towards HESS J1804-216: Still an unidentified TeV γ-ray source".

PASA,

37, e056

(2020). https://doi.org/10.1017/pasa.2020.47 (M)

---

61 *Feretti, L.; Govoni, F.; Heald, G.; Rudnick, L.; Johnston-Hollitt, M.

"New insights in extragalactic magnetic fields". In:

Astronomy in Focus XXX, Vienna, Austria, 20-31 August, 2018,

14, 287-290

(2020). https://doi.org/10.1017/S1743921319004423 (O)

---

62 *Galvin, T.J.; Huynh, M.T.; Norris, R.P.; Wang, X.R.; Hopkins, E.; Polsterer, K.; Ralph, N.O.; O'Brien, A.N.; Heald, G.H.

"Cataloguing the radio-sky with unsupervised machine learning: a new approach for the SKA era".

MNRAS,

497, 2730-2758

(2020). https://doi.org/10.1093/mnras/staa1890 (C)

---

63 Gatuzz, E.; Díaz Trigo, M.; Miller-Jones, J.C.A.; Migliari, S.

"Simultaneous detection of an intrinsic absorber and a compact jet emission in the X-ray binary IGR J17091-3624 during a hard accretion state".

MNRAS,

491, 4857-4868

(2020). https://doi.org/10.1093/mnras/stz3385 (C)

---

64 *Gomes, Z.; Camera, S.; Jarvis, M.J.; Hale, C.; Fonesca, J.

"Non-Gaussianity constraints using future radio continuum surveys and the multi-tracer technique".

MNRAS,

492, 1513–1522

(2020). https://doi.org/10.1093/mnras/stz3581 (O)

---

65 *Green, J. A.

"The Parkes Radio Telescope as a square kilometre array technology pathfinder". In:

SPIE Astronomical Telescopes & Instrumentation 2020, Virtual Event, 13 December 2020,

11445, 1144539 (2020)

(2020). https://doi.org/10.1117/12.2562037 (P)

---

66 *Green, J. A.

"Increasing efficiency and inclusivity of a radio telescope approaching 60". In:

SPIE Astronomical Telescopes & Instrumentation 2020, Virtual Event, 13 December 2020,

11449, 114490R (2020)

(2020). https://doi.org/10.1117/12.2563255 (P)

---

67 Gupta, V.; Jameson, A.; Flynn, C.; Price, D. C.; Dobie, D.; Cooke, J.; Zhang, J.; Webb, S.; Goode, S.

"Two new FRBs in the FRB190711 field detected at Parkes".

Astronomer's Telegram,

#14040,

(2020). (P)

---

68 Gusinskaia, N.V.; Russell, T.D.; Hessels, J.W.T.; Bogdanov, S.; Degenaar, N.; Deller, A.T.; van den Eijnden, J.; Jaodand, A.D.; Miller-Jones, J.C.A.; Wijnands, R.

"Radio and X-ray monitoring of the accreting millisecond X-ray pulsar IGR J17591-2342 in outburst".

MNRAS,

492, 1091-1101

(2020). https://doi.org/10.1093/mnras/stz3460 (C)

---

69 *Guzman, J. C.; Bastholm, E.; Raja, W.; Whiting, M.; Mitchell, D.; Ord, S.; Voronkov, M.

"Are we There Yet? Experiences from Developing and Commissioning the High Performance Computing (HPC) System for the ASKAP Telescope". In:

Astronomical Data Analysis Software and Systems XXVII. ASP Conference Series, 22-26 October 2017,

522, 31

(2020). https://doi.org/10.1117/12.2575982 (A)

---

70 *Guzman, J.; Wicenec, A.

"The Rialto Project: Software Prototyping for the SKA Science Data Processor Based on Australian Precursor Technologies". In:

Astronomical Data Analysis Software and Systems XXIX. ASP Conference Series, Groningen, the Netherlands, 6-10 October 2019,

527, 531

(2020). (A, S)

---

71 Han, W.; Wang, J.; Wang, N.; Sun, G.; He, D.

"A method of ground target positioning by observing radio pulsars".

ExA,

49, 43-60

(2020). https://doi.org/10.1007/s10686-020-09651-2 (P)

---

72 *Harrison, I.; Brown, M. L.; Tunbridge, B.; Thomas, D. B.; Hillier, T.; Thomas, A. P.; Whittaker, L.; Abdalla, F. B.; Battye, R. A.; Bonaldi, A. and SuperCLASS Collaboration and 10 coauthors

"SuperCLASS - III. Weak lensing from radio and optical observations in Data Release 1".

MNRAS,

495, 1737–1759

(2020). https://doi.org/10.1093/mnras/staa696 (O)

---

73 *Harwood, J.J.; Vernstrom, T.; Stroe, A.

"Unveiling the cause of hybrid morphology radio sources (HyMoRS)".

MNRAS,

491, 803-822

(2020). https://doi.org/10.1093/mnras/stz3069 (O)

---

74 *Heald, G.; Mao, S.; Vacca, V.; Akahori, T.; Damas-Segovia, A.; Gaensler, B.; Hoeft, M.; Agudo, I.; Basu, A.; Beck, R.; and 34 coauthors

"Magnetism science with the Square Kilometre Array".

Galax.,

8, 53

(2020). https://doi.org/10.3390/galaxies8030053 (O)

---

75 *Heintz, K. E.; Prochaska, J. X.; Simha, S.; Platts, E.; Fong, W.-F.; Tejos, N.; Ryder, S. D.; Aggerwal, K.; Bhandari, S.; Day, C. K.; and 8 coauthors

"Host Galaxy Properties and Offset Distributions of Fast Radio Bursts: Implications for Their Progenitors".

ApJ,

903, 152

(2020). https://doi.org/10.3847/1538-4357/abb6fb (A)

---

76 Henshaw, J. D.; Kruijssen, J. M. Diederik; Longmore, S. N.; Riener, M.; Leroy, A. K.; Rosolowsky, E.; Ginsburg, A.; Battersby, C.; Chevance, M.; Meidt, S. E.; and 16 coauthors

"Ubiquitous velocity fluctuations throughout the molecular interstellar medium".

Nature Astronomy,

4, 1064-1071

(2020). https://doi.org/10.1038/s41550-020-1126-z (M)

---

77 *Heywood, I.; Hale, C. L.; Jarvis, M. J.; Makhathini, S.; Peters, J. A.; Sebokolodi, M. L. L.; Smirnov, O. M.

"VLA imaging of the XMM-LSS/VIDEO deep field at 1-2 GHz".

MNRAS,

496, 3469-3481

(2020). https://doi.org/10.1093/mnras/staa1770 (O)

---

78 *Heywood, I.; Lenc, E.; Serra, P.; Hugo, B.; Bannister, K.W.; Bell, M.E.; Chippendale, A.; Harvey-Smith, L.; Marvil, J.; McConnell, D.; Voronkov, M.A.

"Field sources near the southern-sky calibrator PKS B1934-638: effect on spectral line observations with SKA-MID and its precursors".

MNRAS,

484, 5018-5028

(2020). https://doi.org/10.1093/mnras/staa941 (C,A)

---

79 *Hilmarsson, G.H.; Spitler, L.G.; Keane, E.F.; Athanasiadis, T.M.; Barr, E.; Cruces, M.; Deng, X.; Heyminck, S.; Karuppusamy, R.; Kramer, M.; and 5 coauthurs

"Observing superluminous supernovae and long gamma-ray bursts as potential birthplaces of repeating fast radio bursts".

MNRAS,

493, 5170-5180

(2020). https://doi.org/10.1093/mnras/staa701 (P)

---

80 *Hobbs, G.; Guo, L.; Caballero, R.N.; Coles, W.; Lee, K.J.; Manchester, R.N.; Reardon, D.J.; Matsakis, D.; Tong, M.L.; Arzoumanian, Z.; and 49 coauthors

"A pulsar-based timescale from the International Pulsar Timing Array".

MNRAS,

491, 5951-5965

(2020). https://doi.org/10.1093/mnras/stz3071 (P)

---

81 *Hobbs, G.; Manchester, R.N.; Dunning, Z.; Jameson, A.; Roberts, P.; George, D.; Green, J.A.; Tuthill, J.; Toomey, L.; Kaczmarek, J.F. and 63 coauthors

"An ultra-wide bandwidth (704 to 4 032 MHz) receiver for the Parkes radio telescope".

PASA,

37, e012

(2020). https://doi.org/10.1017/pasa.2020.2 (P)

---

82 *Hodgson, T.; Johnston-Hollitt, M.; McKinley, B.; Vernstrom, T.; Vacca, V.

"Low(er) frequency follow-up of 28 candidate, large-scale synchrotron sources".

PASA,

37, e032

(2020). https://doi.org/10.1017/pasa.2020.26 (A)

---

83 *Horesh, A.; Sfaradi, I.; Ergon, M; Barbarino, C.; Sollerman, J.; Moldon, J.; Dobie, D.; Schulze, S.; Pérez-Torres, M.; Williams, D. R. A. and 31 coauthors

"A Non-equipartition Shock Wave Traveling in a Dense Circumstellar Environment around SN 2020oi".

ApJ,

903, 132

(2020). https://doi.org/10.3847/1538-4357/abbd38 (C)

---

84 *Hotan, A.

"ASKAP surveys and plans". In:

The Build-up of galaxies through multiple tracers and facilities, Perth, Australia, 17-21 February 2020,

16 p.

(2020). https://doi.org/10.5281/zenodo.3756436 (A)

---

85 *Humire, P.K.; Henkel, C.; Gong, Y.; Leurini, S.; Mauersberger, R.; Levshakov, S.A.; Winkel, B.; Tarchi, A.; Castangia, P.; Malawi, A.; and 5 coauthors

"36 GHz methanol lines from nearby galaxies: maser or quasi-thermal emission?"

A&A,

633, 106

(2020). https://doi.org/10.1051/0004-6361/201936330 (O)

---

86 *Huynh, M.; Dempsey, J.; Whiting, M.T.; Ophel, M.

"The CSIRO ASKAP Science Data Archive". In:

ASP Conf. Ser., *Astronomical Data Analysis Software and Systems XXVII*, Santiago de Chile, Chile, 22-26 October 2017,

522, 263

(2020). (A)

---

87 *Huynh, M.T.; Seymour, N.; Norris, R.P.; Galvin, T.

"The ATLAS 9.0 GHz survey of the extended Chandra Deep Field South: the faint 9.0 GHz radio population."

MNRAS,

491, 3395-3410

(2020). https://doi.org/10.1093/mnras/stz3187 (C)

---

88 *HyeongHan, K.; Jee, M. J.; Rudnick, L.; Parkinson, D.; Finner, K.; Yoon, M.; Lee, W.; Brunettie, G.; Bruggen, M.; Coller, J. D.; Hopkins, A. M.; Michalowski, M. J.: Norris, R. P.; Riseley, C.

"Discovery of a Radio Relic in the Massive Merging Cluster SPT-CL J2023-5535 from the ASKAP-EMU Pilot Survey".

ApJ,

900, 127

(2020). https://doi.org/10.3847/1538-4357/aba742 (C,A)

---

89 *Ilie, C.D.; Weltevrede, P.; Johnston, S.; Chen, T.

"The drifting subpulses of PSR B0031-07 and its synchronously modulated radio polarization".

MNRAS,

491, 3385-3394

(2020). https://doi.org/10.1093/mnras/stz3167 (P)

---

90 Isobe, N.; Sunada, Y.; Kino, M.; Koyama, S.; Tashiro, M.; Nagai, H.; Pearson ,C.

"Herschel SPIRE Discovery of Far-infrared Excess Synchrotron Emission from the West Hot Spot of the Radio Galaxy Pictor A"

ApJ,

899 17

(2020). https://doi.org/10.3847/1538-4357/ab9d1c (C)

---

91 Jackson, J. M.; Allngham, D.; Killerby-Smith, N.; Whitaker, J. S.; Smith, H. A.; Contreras, Y.; Guzman, A. E.; Hogge, T.; Sanhueza, P.; Stephens, I. W.

"Characterizing [C II] Line Emission in Massive Star-forming Clumps".

ApJ,

904, 18

(2020). https://doi.org/10.3847/1538-4357/abba2e (C)

---

92 *James, C.W.; Osłowski, S.; Flynn, C.; Kumar, P.; Bannister, K.; Bhandari, S.; Farah, W.; Kerr, M.; Lorimer, D. R.; Macquart, J.-P.; and 6 coauthors

"Measurement of the rate distribution of the population of repeating Fast Radio Bursts: Implications for progenitor models".

ApJ,

895, L22

(2020). https://doi.org/10.3847/2041-8213/ab8f99 (O)

---

93 *James, C.W.; Osłowski, S.; Flynn, C.; Kumar, P.; Bannister, K.; Bhandari, S.; Farah, W.; Kerr, M.; Lorimer, D.R.; Macquart, J.-P.; and 5 coauthors

"Which bright fast radio bursts repeat?"

MNRAS,

495, 2416-2427

(2020). https://doi.org/10.1093/mnras/staa1361 (A,P)

---

94 *Jauncey, D.L.

"Around the world with Space VLBI: A sense of many places".

Advances in Space Research,

65, 877-890

(2020). https://doi.org/10.1016/j.asr.2019.07.009 (O)

---

95 *Jauncey, D.L.; Koay, J.-Y.; Bignall, H.; Macquart, J.-P.; Pursimo, T.; Giroletti, M.; Hovatta, T.; Kiehlmann, S.; Rickett, B.; Readhead, A. and 6 coauthors

"Interstellar scintillation, ISS, and intrinsic variability of radio AGN".

Advances in Space Research,

65, 756-762

(2020). https://doi.org/10.1016/j.asr.2019.05.003 (O)

---

96 *Jiang, J-C.; Wang, W-Y.; Luo, R.; Du, S.; Chen, X.; Lee, K-J.; Xu, R-X.

"FRB 171019: an event of binary neutron star merger?"

Res.Astron.Astrophys.,

20, 056

(2020). https://doi.org/10.1088/1674-4527/20/4/56 (O)

---

97 Johnston, K.G.; Hoare, M.G.; Beuther, H.; Linz, H.; Boley, P.; Kuiper, R.; Kee, N.Dylan; Robitaille, T.P.

"A detailed view of the circumstellar environment and disk of the forming O-star AFGL 4176".

ApJ,

896, 35

(2020). https://doi.org/10.3847/1538-4357/ab8adc (C)

---

98 *Johnston, S.; Karastergiou, A.; Keith, M.J.; Song, X.; Weltevrede, P.; Abbate, F.; Bailes, M.; Buchner, S.; Camilo, F.; Geyer, M.; and 18 coauthors

"The Thousand-Pulsar-Array programme on MeerKAT - I. Science objectives and first results".

MNRAS,

493 3608-3615

(2020). https://doi.org/10.1093/mnras/staa516 (O)

---

99 *Johnston, S.; Smith, D. A.; Karastergiou, A.; Kramer, M.

"The Galactic population and properties of young, highly energetic pulsars".

MNRAS,

497, 1957-1965

(2020). https://doi.org/10.1093/mnras/staa2110 (O)

---

100 *Jones, B.M.; Fuller, G.A.; Breen, S.L.; Avison, A.; Green, J.A.; Traficante, A.; Elia, D.; Ellingsen, S.P.; Voronkov, M.A.; Merello, M.; and 2 coauthors

"The evolutionary status of protostellar clumps hosting class II methanol masers".

MNRAS,

493, 2015-2041

(2020). https://doi.org/10.1093/mnras/staa233 (O)

---

101 *Kadler, M.; Hessdoerfer, J.; Eppel, F. Bach, U.; Kraus, A.; Gokus, A.; Paraschos, G. -F.; Ros, E.; Dorner, D.; Edwards, P. G.; and 12 coauthors

"Contemporary Effelsberg Observations of Two Radio Sources in the Fields of IceCube-201114A and IceCube-201115A".

Astronomer's Telegram,

#14194,

(2020). (O)

---

102 *Kadler, M.; Hessdoerfer, J.; Eppel, F.; Bach, U.; Kraus, A.; Gokus, A.; Paraschos, G. -F.; Ros, E.; Dorner, D.; Edwards, P. G.; end 12 coauthors

"Correction to ATel #14191 (Contemporary Effelsberg Observations of Two Radio Sources in the Fields of IceCube-201114A and IceCube-201115A)".

Astronomer's Telegram,

#14194,

(2020). (O)

---

103 *Kasliwal, M. M.; Anand, S.; Ahumada, T.; Stein, R.; Carracedo, A. S.; Andreoni, I.; Coughlin, M. W.; Singer, L. P.; Kook, E. C.; De, K.; and 92 coauthors

"Kilonova Luminosity Function Constraints Based on Zwicky Transient Facility Searches for 13 Neutron Star Merger Triggers during O3".

ApJ,

905, 145

(2020). https://doi.org/10.3847/1538-4357/abc335 (O)

---

104 *Kerr, Matthew; Reardon, Daniel J.; Hobbs, George; Shannon, Ryan M.; Manchester, Richard N.; Dai, Shi; Russell, Christopher J.; Zhang, Songbo; van Straten, Willem; Osłowski, Stefan; and 20 coauthors

"The Parkes Pulsar Timing Array project: second data release".

PASA,

37, e020

(2020). https://doi.org/10.1017/pasa.2020.11 (P)

---

105 *Koribalski, B.S.; Staveley-Smith, L.; Westmeier, T.; Serra, P.; Spekkens, K.; Wong, O.I.; Lee-Waddell, K.; Lagos, C.D.P.; Obreschkow, D.; Ryan-Weber, E.V.; and 60 coauthors

"WALLABY - an SKA Pathfinder HI survey".

Ap&SS,

365, A118

(2020). https://doi.org/10.1007/s10509-020-03831-4 (A)

---

106 *Kovalev, Y.A.; Kardashev, N.S.; Kovalev, Y.Y.; Sokolovsky, K.V.; Voitsik, P.A.; Edwards, P.G.; Popkov, A.V.; Zhekanis, G.V.; Sotnikova, Y.V.; Nizhelsky, N.A.; and 3 coauthors

"RATAN-600 and RadioAstron reveal the neutrino-associated blazar TXS 0506+056 as a typical variable AGN".

AdSpR.,

65, 745-755

(2020). https://doi.org/10.1016/j.asr.2019.04.034 (O)

---

107 *Kovalev, Y.Y.; Kardashev, N.S.; Sokolovsky, K.V.; Voitsik, P.A.; An, T.; Anderson, J.M.; Andrianov, A.S.; Avdeev, V. Yu.; Bartel, N.; Bignall, H.E.; Burgin, M.S.; and 50 coauthors

"Detection statistics of the RadioAstron AGN survey".

AdSpR.,

65, 705-711

(2020). https://doi.org/10.1016/j.asr.2019.08.035 (V)

---

108 *Krause, M.; Irwin, J.; Schmidt, P.; Stein, Y.; Miskolczi, A.; Mora-Partiarroyo, S.; Wiegert, T.; Beck, R.; Stil, J.M.; Heald, G.; and 9 coauthors

"CHANG-ES. XXII. Coherent magnetic fields in the halos of spiral galaxies".

A&A,

639, 112

(2020). https://doi.org/10.1051/0004-6361/202037780 (O)

---

109 Krauß, F.; Calamari, E.; Keivani, A.; Coleiro, A.; Evans, P.A.; Fox, D.B.; Kennea, J.A.; Mészáros, P.; Murase, K.; Russell, T.D.; and 2 coauthors

"Multimessenger observations of counterparts to IceCube-190331A".

MNRAS,

497, 2553-2561

(2020). https://doi.org/10.1093/mnras/staa2148 (C)

---

110 Kundu, E.; Ryder, S.D.; Filipovic, M.D.; Anderson, G.; Stockdale, C.; Maeda, K.; Renaud, M.; Kotak, R.

"Radio detection from SN 2020ad".

Astronomer's Telegram,

#13387,

(2020). (C)

---

111 Kundu, E.; Ryder, S.D.; Filipovic, M.D.; Anderson, G.; Stockdale, C.; Maeda, K.; Renaud, M.; Kotak, R.

"Radio observations of SN 2020llx".

Astronomers Telegram,

#13805,

(2020). (C)

---

112 Leto, P.; Trigilio, C.; Buemi, C.S.; Leone, F.; Pillitteri, I.; Fossati, L.; Cavallaro, F.; Oskinova, L. M.; Ignace, R.; Krtička, J., J. and 10 coauthors

"The auroral radio emission of the magnetic B-type star ρ-=OphC".

MNRAS,

499, L72-L76

(2020). https://doi.org/10.1093/mnrasl/slaa157 (C)

---

113 Leto, P.; Trigilio, C.; Leone, F.; Pillitteri, I.; Buemi, C. S.; Fossati, L.; Cavallaro, F.; Oskinova, L. M.; Ignace, R.; Krtička, J.; and 13 coauthors

"Evidence for radio and X-ray auroral emissions from the magnetic B-type star ρ Oph A".

MNRAS,

493, 4657-4676

(2020). https://doi.org/10.1093/mnras/staa587 (C)

---

114 *Li, D.; Tang, N.; Nguyen, H.; Dawson, J.R.; Heiles, C.; Wang, P.; Primo Collaboration

"Simple hydrides (OH and CH) trace the dark molecular gas". In:

IAU345, *Origins: From the Protosun to the First Steps of Life*, Vienna, Austria, 20-23 August, 2018,

345, 261-264

(2020). https://doi.org/10.1017/S1743921318008487 (C)

---

115 Li, K.-L.; Strader, J.; Miller-Jones, J.C.A.; Heinke, C.O.; Chomiuk, L.

"The flare-dominated accretion mode of a radio-bright candidate transitional millisecond pulsar".

ApJ,

895, 89

(2020). https://doi.org/10.3847/1538-4357/ab8f28 (C)

---

116 *Liao, K.; Zhang, S.-B.; Li, Z.; Gao, H.

"Constraints on compact dark matter with Fast Radio Burst observations".

ApJ,

896, L11

(2020). https://doi.org/10.3847/2041-8213/ab963e (O)

---

117 *Line, J.L.B.; Mitchell, D.A.; Pindor, B.; Riding, J.L.; McKinley, B.; Webster, R.L.; Trott, C.M.; Hurley-Walker, N.; Offringa, A.R.

"Modelling and peeling extended sources with shapelets: A Fornax A case study".

PASA,

37, e027

(2020). https://doi.org/10.1017/pasa.2020.18 (O)

---

118 Lockman, F.J.; Di Teodoro, E.M.; McClure-Griffiths, N.M.

"Observation of acceleration of H I Clouds within the Fermi bubbles".

ApJ,

888, 51

(2020). https://doi.org/10.3847/1538-4357/ab55d8 (C,P)

---

119 Lopez, L. A.; Grefenstette, B. W.; Auchettl, Katie; Madsen, K. K.; Castro, D.

"Evidence of Particle Acceleration in the Superbubble 30 Doradus C with NuSTAR".

ApJ,

893, 144

(2020). https://doi.org/10.3847/1538-4357/ab8232 (C, P)

---

120 *Lower, M.E.; Bailes, M.; Shannon, R.M.; Johnston, S.; Flynn, C.; Osłowski, S.; Gupta, V.; Farah, W.; Bateman, T.; Green, A.J.; and 8 coauthors

"The UTMOST pulsar timing programme - II. Timing noise across the pulsar population".

MNRAS,

494, 228-245

(2020). https://doi.org/10.1093/mnras/staa615 (O)

---

121 *Lower, M.E.; Shannon, R.M.; Johnston, S.; Bailes, M.

"Spectropolarimetric properties of Swift J1818.0-1607: A 1.4 s radio magnetar".

ApJ,

896, L37

(2020). https://doi.org/10.3847/2041-8213/ab9898 (P)

---

122 Lucas, P.W.; Minniti, D.; Kamble, A.; Kaplan, D.L.; Cross, N.; Dekany, I.; Ivanov, V.D.; Kurtev, R.; Saito, R.K.; Smith, L.C.; and 11 coauthors

"VVV-WIT-01: highly obscured classical nova or protostellar collision?"

MNRAS,

492, 4847-4857

(2020). https://doi.org/10.1093/mnras/staa155 (C)

---

123 *Luken, K.J.; Filipović, M.D.; Maxted, N.I.; Kothes, R.; Norris, R.P.; Allison, J.R.; Blackwell, R.; Braiding, C.; Brose, R.; Burton, M.; and 11 coauthors

"Radio observations of supernova remnant G1.9+0.3".

MNRAS,

492, 2606-2621

(2020). https://doi.org/10.1093/mnras/stz3439 (C)

---

124 Lundqvist, P.; Kundu, E.; Pérez-Torres, M.A.; Ryder, S.D.; Björnsson, C.-I.; Moldon, J.; Argo, M.K.; Beswick, R.J.; Alberdi, A.; Kool, E. C.

"The deepest radio observations of nearby SNe Ia: Constraining progenitor types and optimizing future surveys".

ApJ,

890, 159

(2020). https://doi.org/10.3847/1538-4357/ab6dc6 (C)

---

125 Lundqvist, P.; Lundqvist, N.; Vlahakis, C.; Björnsson, C.-I.; Dickel, J.R.; Matsuura, M.; Shibanov, Yu A.; Zyuzin, D.A.; Olofsson, G.

"Atacama Compact Array observations of the pulsar-wind nebula of SNR 0540-69.3".

MNRAS,

496, 1834-1844

(2020). https://doi.org/10.1093/mnras/staa1675 (C)

---

126 *Luo, R.; Men, Y.; Lee, K.; Wang, W.; Lorimer, D.R.; Zhang, B.

"On the FRB luminosity function - II. Event rate density".

MNRAS,

494, 665-679

(2020). https://doi.org/10.1093/mnras/staa704 (O)

---

127 *Luo, R.; Wang, B. J.; Men, Y. P.; Zhang, C. F.; Jiang, J. C.; Zu, H.; Wang, W. Y.; Lee, K. J.; Han, J. L.; Zhang, B. and 27 coauthors

"Diverse polarization angle swings from a repeating fast radio burst source".

Nature,

586, 693-696

(2020). https://doi.org/10.1038/s41586-020-2827-2 (O)

---

128 *Lutz, K. A.; Kilborn, V.; Catinella, B.; Cortese, L.; Brown, T. H.; Koribalski, B.

"The H IX galaxy survey. III. The gas-phase metallicity in H I eXtreme galaxies".

A&A,

635, 69

(2020). https://doi.org/10.1051/0004-6361/201936556 (O)

---

129 *Macquart, J.-P.; Prochaska, J.X.; McQuinn, M.; Bannister, K.W.; Bhandari, S.; Day, C.K.; Deller, A.T.; Ekers, R.D.; James, C.W.; Marnoch, L.; and 6 coauthors

"A census of baryons in the Universe from localized fast radio bursts".

Nature,

581, 391–395

(2020). https://doi.org/10.1038/s41586-020-2300-2 (A,C)

---

130 *Madrid, J. P.; Tuntsov, A. V.; Schirmer, M.; Walker, M. A.; Donzelli, C. J.; Bannister, K. W.; Bignall, H. E.; Stevens, J.; Reynolds, C.; Johnston, S.

"Optical Study of PKS B1322-110, the Intra-hour Variable Radio Source".

ApJ,

900, 169

(2020). doi:10.3847/1538-4357/abaaaf (O)

---

131 Majid, W.A.; Pearlman, A.B.; Nimmo, K.; Hessels, J.W.T.; Prince, T.A.; Naudet, C.J.; Kocz, J.; Horiuchi, S.

"A dual-band radio observation of FRB 121102 with the Deep Space Network and the detection of multiple bursts".

ApJ,

897, L4

(2020). https://doi.org/10.3847/2041-8213/ab9a4a (O)

---

132 *Manning, S. M.; Casey, C. M.; Hung, C. -L.; Battye, R.; Brown, M. L. Jackson, N.; Abdalla, F.; Chapman, S.; Demetroullas, C.; Drew, P.; SuperCLASS Collabortion and 4 coauthors

"SuperCLASS - II. Photometric redshifts and characteristics of spatially resolved μJy radio sources".

MNRAS,

495, 1724–1736

(2020). https://doi.org/10.1093/mnras/staa657 (O)

---

133 *Marnoch, L.; Ryder, S.D.; Bannister, K.W.; Bhandari, S.; Day, C.K.; Deller, A.T.; Macquart, J.-P.; McDermid, R.M.; Xavier Prochaska, J.; Qiu, H.; and 3 coauthors

"A search for supernova-like optical counterparts to ASKAP-localised fast radio bursts".

A&A,

639, 119

(2020). https://doi.org/10.1051/0004-6361/202038076 (O)

---

134 *McCarthy, T.P.; Ellingsen, S.P.; Breen, S.L.; Voronkov, M.A.; Chen, X.; Qiao, H.-H.

"Variability in extragalactic class I methanol masers: New maser components toward NGC 4945 and NGC 253".

MNRAS,

491, 4642-4655

(2020). https://doi.org/10.1093/mnras/stz3098 (C)

---

135 *McConnell, D.; Hale, C. L.; Lenc, E.; Banfield, J. K.; Heald, G.; Hotan, A. W.; Leung, J. K.; Moss, V. A; Murphy, T.; O'Brien, A.; and 40 coauthors

"The Rapid ASKAP Continuum Survey I: Design and first results".

PASA,

37, e048

(2020). https://doi.org/10.1017/pasa.2020.41 (A)

---

136 *McKinley, B.; Trott, C. M.; Sokolowski, M; Wayth, R. B.; Sutinjo, A.; Patra, N.; Nambissan, T. J.; Ung, D. C. X.

"The All-Sky SignAl Short-Spacing INterferometer (ASSASSIN) - I. Global-sky measurements with the Engineering Development Array-2".

MNRAS,

499, 52-67

(2020). https://doi.org/10.1093/mnras/staa2804 (O)

---

137 *McSweeney, S. J.; Ord, S. M.; Kaur, D.; Bhat, N. D. R.; Meyers, B. W.; Tremblay, S. E.; Jones, J.; Crosse, B.; Smith, K. R.

"MWA tied-array processing III: Microsecond time resolution via a polyphase synthesis filter".

PASA,

37, e034

(2020). https://doi.org/10.1017/pasa.2020.24 (O)

---

138 *Morello, V.; Keane, E.F.; Enoto, T.; Guillot, S.; Ho, W.C.G.; Jameson, A.; Kramer, M.; Stappers, B.W.; Bailes, M.; Barr, E.D.; and 12 coauthors

"The SUrvey for pulsars and extragalactic radio bursts - IV. Discovery and polarimetry of a 12.1-s radio pulsar".

MNRAS,

493, 1165-1177

(2020). https://doi.org/10.1093/mnras/staa321 (P)

---

139 *Morganti, R.; Schulz, R.; Nyland, K.; Paragi, Z.; Oosterloo, T.; Mahony, E.; Murthy, S.

"The parsec-scale structure of jet-driven H I outflows in radio galaxies". In:

IAU XXX, *Astronomy in Focus,* Vienna, Austria, 20-31 August, 2018,

14, 74-77

(2020). https://doi.org/10.1017/S174 (O)

---

140 *Morrison, I. S.; Bunton, J. D.; van Straten, W.; Deller, A.; Jameson, A.

"Performance of Oversampled Polyphase Filterbank Inversion via Fourier Transform".

Journal of Astronomical Instrumentation,

9 id.2050004-444

(2020). https://doi.org/10.1142/S225117172050004X (O)

---

141 *Moss, V

"Preparing for the Next Generation of Radio Observatory Operations". In:

Astronomical Data Analysis Software and Systems XXIX. ASP Conference Series, Groningen, the Netherlands, 6-10 October 2019,

527, 327

(2020). (O)

---

142 *Murugeshan, C.; Kilborn, V.; Jarrett, T.; Wong, O. I.; Obreschkow, D.; Glazebrook, K.; Cluver, M. E.; Fluke, C. J.

"The influence of angular momentum and environment on the H I gas of late-type galaxies".

MNRAS,

496, 2516-2529

(2020). https://doi.org/10.1093/mnras/staa1731 (O)

---

143 Ng. C.; Guillemot, L.; Freire, P. C. C.; Kramer, M; Champion, D. J.; Cognard, I.; Theureau, G.; Barr, E. D.

"A Shapiro delay detection in the pulsar binary system PSR J1811-2405".

MNRAS,

493, 1261-1267

(2020). https://doi.org/10.1093/mnras/staa337 (P)

---

144 *Nikiel-Wroczynski, B.; Soida, M.; Heald, G.; Urbanik, M.

"A Large-scale, Regular Intergalactic Magnetic Field Associated with Stephan's Quintet?"

ApJ,

898, 110

(2020). https://doi.org/10.3847/1538-4357/ab9d89 (O)

---

145 *Noutsos A.; Desvignes, G.; Kramer, M.; Wex, N.; Freire, P. C. C.; Stairs, I. H.; McLaughlin, M. A.; Manchester, R. N.; Possenti, A.; Burgay, M. and 4 coauthors

"Understanding and improving the timing of PSR J0737-3039B".

A&A,

643, 143

(2020). https://doi.org/10.1051/0004-6361/202038566 (P)

---

146 *O'Sullivan, S.P.; Brüggen, M.; Vazza, F.; Carretti, E.; Locatelli, N.T.; Stuardi, C.; Vacca, V.; Vernstrom, T.; Heald, G.; Horellou, C.; and 4 coauthors

"New constraints on the magnetization of the cosmic web using LOFAR Faraday rotation observations".

MNRAS,

495, 2607-2619

(2020). https://doi.org/10.1093/mnras/staa1395 (O)

---

147 *Ogbodo, C.S.; Green, J.A.; Dawson, J.R.; Breen, S.L.; Mao, S.A.; McClure-Griffiths, N.M.; Robishaw, T.; Harvey-Smith, L.

"MAGMO: polarimetry of 1720-MHz OH masers towards southern star-forming regions".

MNRAS,

493, 199-233

(2020). https://doi.org/10.1093/mnras/staa167 (C)

---

148 *Oosterloo, T. A.; Vedantham, H. K.; Adams, E. A. K.; Adebahr, B.; Coolen, A. H. W. M.; Damstra, S.; de Blok, W. J. G.; Dénes, H.; Hess, K. M. Hut, B. and 20 coauthors

"Extreme intra-hour variability of the radio source J1402+5347 discovered with Apertif".

A&A,

641, L4

(2020). https://doi.org/10.1051/0004-6361/202038378 (O)

---

149 *Oostrum, L. C.; Maan, Y.; van Leeuwen, J.; Connor, L.; Petroff, E.; Attema, J. J.; Bast, J. E.; Gardenier, D. W.; Hargreaves, J. E.; Kooistra, E.; and 33 coauthors

"Repeating fast radio bursts with WSRT/Apertif".

A&A,

635, 61

(2020). https://doi.org/10.1051/0004-6361/201937422 (O)

---

150 *Oswald, L.; Karastergiou, A.; Johnston, S.

"Pulsar polarimetry with the Parkes ultra-wideband receiver".

MNRAS,

496, 1418-1429

(2020). https://doi.org/10.1093/mnras/staa1597 (P)

---

151 *Pan, Z.; Ransom, S.M.; Lorimer, D.R.; Fiore, W.C.; Qian, L.; Wang, L.; Stappers, B.W.; Hobbs, G.; Zhu, W.; Yue, Y.; and 6 coauthors

"The FAST discovery of an eclipsing binary millisecond pulsar in the globular cluster M92 (NGC 6341)".

ApJ,

892, L6

(2020). https://doi.org/10.3847/2041-8213/ab799d (O)

---

152 *Parthasarathy, A.; Johnston, S.; Shannon, R.M.; Lentati, L.; Bailes, M.; Dai, S.; Kerr, M.; Manchester, R. N.; Osłowski, S.; Sobey, C.; and 2 coauthors

"Timing of young radio pulsars - II. Braking indices and their interpretation".

MNRAS,

494, 2012-2026

(2020). https://doi.org/10.1093/mnras/staa882 (P)

---

153 *Polzin, E.J.; Breton, R.P.; Bhattacharyya, B.; Scholte, D.; Sobey, C.; Stappers, B.W.

"Study of spider pulsar binary eclipses and discovery of an eclipse mechanism transition".

MNRAS,

494, 2948-2968

(2020). https://doi.org/10.1093/10.1093/mnras/staa596 (O)

---

154 Popov, M. V.; Bartel, N.; Burgin, M. S.; Gwinn, C. R.; Smirnova, T. V.; Soglasnov, V. A.

"Substructure of Visibility Functions from Scattered Radio Emission of Pulsars through Space VLBI".

ApJ,

888, 57

(2020). https://doi.org/10.3847/1538-4357/ab5db6 (V)

---

155 *Prabu, S.; Hancock, P.; Zhang, X.; Tingay, S. J.

"A low-frequency blind survey of the low Earth orbit environment using non-coherent passive radar with the Murchison widefield array"

PASA,

37, e052

(2020). https://doi.org/10.1017/pasa.2020.40 (O)

---

156 *Prabu, S.; Hancock, P.J.; Zhang, X.; Tingay, S.J.

"The development of non-coherent passive radar techniques for space situational awareness with the Murchison Widefield Array".

PASA,

37, e10

(2020). https://doi.org/10.1017/pasa.2020.1 (O)

---

157 *Price, D.C.; Enriquez, J.E.; Brzycki, B.; Croft, S.; Czech, D.; DeBoer, D.; DeMarines, J.; Foster, G.; Gajjar, V.; Gizani, N.; and 14 coauthors

"The Breakthrough Listen Search for Intelligent Life: Observations of 1327 nearby stars over 1.10–3.45 GHz".

AJ,

159, 86

(2020). https://doi.org/10.3847/1538-3881/ab65f1 (P)

---

158 *Qiao, H.-H.; Breen, S.L.; Gómez, J.F.; Dawson, J.R.; Walsh, A.J.; Green, J.A.; Ellingsen, S.P.; Imai, H.; Shen, Z.-Q.

"Accurate OH maser positions from the SPLASH Survey. III. The final 96 square degrees".

ApJS,

247, 5

(2020). https://doi.org/10.3847/1538-4365/ab655d (C)

---

159 *Qiu, H.; Shannon, R. M.; Farah, W.; Macquart, J.-P.; Deller, A.T.; Bannister, K.W.; James, C.W.; Flynn, C.; Day, C.K.; Bhandari, S.; Murphy, T.

"A population analysis of pulse broadening in ASKAP fast radio bursts".

MNRAS,

497, 1382–1390

(2020). https://doi.org/10.1093/mnras/staa1916 (A)

---

160 *Read, S.C.; Smith, D.J.B.; Jarvis, M.J.; Gürkan, G.

"The performance of photometric reverberation mapping at high redshift and the reliability of damped random walk models".

MNRAS,

492, 3940-3959

(2020). https://doi.org/10.1093/mnras/stz3574 (O)

---

161 *Reardon, D. J.; Coles, W. A.; Bailes, M.; Bhat, N. D. R.; Hobbs, G. B.; Kerr, M.; Manchester, R. N.; Oslowski, S.; Parthasarthy, A.; Russell, C. J. and 10 coauthors

"Precision Orbital Dynamics from Interstellar Scintillation Arcs for PSR J0437-4715".

ApJ,

904, 104

(2020). https://doi.org/10.3847/1538-4357/abbd40 (P)

---

162 Reuter, C.; Vieira, J. D.; Spilker, J. S.; Weiss, A.; Aravena, M.; Archipley, M.; Béthermin, M.; Chapman, S. C.; De Breuck, C.; Dong, C.; and 14 coauthors

"The Complete Redshift Distribution of Dusty Star-forming Galaxies from the SPT-SZ Survey".

ApJ,

902, 78

(2020). https://doi.org/10.3847/1538-4357/abb599 (C)

---

163 *Reynolds, C.; Punsly, B.; Miniutti, G.; O'Dea, C.P.; Hurley-Walker, N.

"Estimating the jet power of Mrk 231 during the 2017-2018 flare".

ApJ,

891, 59

(2020). https://doi.org/10.3847/1538-4357/ab72f0 (O)

---

164 Reynolds, T. N,; Westmeier, T.; Staveley-Smith, L.

"H I deficiencies and asymmetries in HIPASS galaxies".

MNRAS,

499, 3233-3242

(2020). https://doi.org/10.1093/mnras/staa3126 (P)

---

165 *Reynolds, T.N.; Westmeier, T.; Staveley-Smith, L.; Chauhan, G.; Lagos, C.D.P.

"H I asymmetries in LVHIS, VIVA, and HALOGAS galaxies".

MNRAS,

493, 5089-5106

(2020). https://doi.org/10.1093/mnras/staa597 (C)

---

166 Rhee, J.

"ASKAP HI deep survey (DINGO)". In:

The Build-up of galaxies through multiple tracers and facilities, Perth, Australia, 17-21 February 2020,

22 p.

(2020). https://doi.org/10.5281/zenodo.3756456 (A)

---

167 *Rioja, M. J.; Dodson, R.

"Precise radio astrometry and new developments for the next-generation of instruments".

A&AR,

28, 6

(2020). https://doi.org/10.1007/s00159-020-00126-z (O)

---

168 *Riseley, C.J.; Galvin, T.J.; Sobey, C.; Vernstrom, T.; White, S. V.; Zhang, X.; Gaensler, B.M.; Heald, G.; Anderson, C. S.; Franzen, T.M. O.; and 4 coauthors

"The POlarised GLEAM Survey (POGS) II: Results from an all-sky rotation measure synthesis survey at long wavelengths".

PASA,

37, e029

(2020). https://doi.org/10.1017/pasa.2020.20 (O)

---

169 *Romero-Shaw, I. M.; Talbot, C.; Biscoveanu, S.; D'Emillo, V.; Ashton, G.; Berry, C. P. L; Coughlin, S.; Galaudage, S.; Hoy, C.; Hübner, M. and 49 coauthors

"Bayesian inference for compact binary coalescences with BILBY: validation and application to the first LIGO-Virgo gravitational-wave transient catalogue".

MNRAS,

499, 3295-3319

(2020). https://doi.org/10.1093/mnras/staa2850 (O)

---

170 Russell, T. D.; Lucchini, M.; Tetarenko, A. J.; Miller-Jones, J. C. A.; Sivakoff, G. R.; Krauß, F.; Mulaudzi, W.; Baglio, M. C.; Russell, D. M.; Altamirano, D.; and 16 coauthors

"Rapid compact jet quenching in the Galactic black hole candidate X-ray binary MAXI J1535-571".

MNRAS,

498, 5772-5785

(2020). https://doi.org/10.1093/mnras/staa2650 (C)

---

171 Russell, T.D.; White, R.L.; Long, K.S.; Blair, W.P.; Soria, R.; Winkler, P.F.

"A new radio catalogue for M83: supernova remnants and H II regions".

MNRAS,

495, 479-501

(2020). https://doi.org/10.1093/mnras/staa1177 (C)

---

172 *Sadler, E. M.; Moss, V. A.; Allison, J. R.; Mahony, E. K.; Whiting, M. T.; Johnston, H. M.; Ellison, S. L.; Lagos, D.; Koribalski, B. S.

"A successful search for intervening 21 cm HI absorption in galaxies at 0.4 < z <1.0 with the Australian Square Kilometre Array Pathfinder (ASKAP)".

MNRAS,

499, 4293-4311

(2020). https://doi.org/10.1093/mnras/staa2390 (A)

---

173 *Said, N. M. M.; Ellingsen, S. P.; Bignall, H. E.; Shabala, S.; McCallum, J. N.; Reynolds, C.

"Interstellar scintillation of an extreme scintillator: PKS B1144-379".

MNRAS,

498, 4615-4634

(2020). https://doi.org/10.1093/mnras/staa2642 (C)

---

174 *Salimpour, S.; Bartlett, S.; Fitzgerald, M.T.; McKinnon, D.H.; Cutts, K.R.; James, C.R.; Miller, S.; Danaia, L.; Hollow, R.P.; Cabezon, S. and 12 coauthors

"The Gateway Science: a review of astronomy in the OECD school curricula, Including China and South Africa".

Res.Sci.Educ.,

22 p.

(2020). https://doi.org/10.1007/s11165-020-09922-0 (O)

---

175 *Sammons, M. W.; Macquart, J.-P.; Ekers, R. D.; Shannon, R. M.; Cho, H.; Prochaska, J. X.; Deller, A. T.; Day, C. K.

"First Constraints on Compact Dark Matter from Fast Radio Burst Microstructure".

ApJ,

900, 122

(2020). https://doi.org/10.3847/1538-4357/aba7bb (O)

---

176 Sano, H.; Plucinsky, P. P.; Bamba, A.; Sharda, P.; Filipović, M. D.; Law, C. J.; Alsaberi, R. Z. E.; Yamane, Y.; Tokuda, K.; Acero, F. and 14 coauthors

"ALMA CO Observations of Gamma-Ray Supernova Remnant N132D in the Large Magellanic Cloud: Possible Evidence for Shocked Molecular Clouds Illuminated by Cosmic-Ray Protons".

ApJ,

902, 53

(2020). https://doi.org/10.3847/1538-4357/abb469 (M)

---

177 *Saponara, J. ; Koribalski, B.S. ; Patra, N.N. ; Benaglia, P.

"New HI observations of KK 69. Is KK 69 a dwarf galaxy in transition?"

Ap&SS,

365, 111

(2020). https://doi.org/10.1007/s10509-020-03825-2 (O)

---

178 *Schulz, R.; Adebahr, B.; Moss, V. A.; Adams, E. A. K.; de Blok, W. J. G.; Denes, H.; Dijkema, T. J.; van der Hulst, J. M.; Kutkin, A.; and 3 coauthors

"Apercal - The Apertif Imaging Survey Data Calibration and Analysis Pipeline". In:

Astronomical Data Analysis Software and Systems XXIX. ASP Conference Series, Groningen, the Netherlands, 6-10 October 2019,

527, 659

(2020). (O)

---

179 *Seymour, N.; Huynh, M.; Shabala, S.S.; Rogers, J.; Davies, L.J.M.; Turner, R.J.; O'Brien, A.; Ishwara-Chandra, C.H.; Thorne, J.E.; Galvin, T.J.; and 20 coauthors

"PKS 2250-351: A giant radio galaxy in Abell 3936".

PASA,

37, e013

(2020). https://doi.org/10.1017/pasa.2019.49 (A,C)

---

180 *Siewert, T. M.; Hale, C.; Bhardwaj, N.; Biermann, M.; Bacon, D. J.; Jarvis, M.; Röttgering, H. J. A.; Schwarz, D. J.; Shimwell, T.; Best, P. N.; Duncan, K. J.; Hardcastle, M. J.; Sabater, J.; Tasse, C.; White, G. J.; Williams, W. L.

"One- and two-point source statistics from the LOFAR Two-metre Sky Survey first data release."

A&A,

643, 100

(2020). https://doi.org/10.1051/0004-6361/201936592 (O)

---

181 *Simha, S.; Burchett, J. N.; Prochaska, J. X.; Chittidi, J. S.; Elek, O.; Tejos, N.; Jorgenson, R.; Bannister, K. W.; Bhandari, S.; Day, C. K.; Deller, A. T.; Forbes, A. G.; Macquart, J.-P.; Ryder, S. D.; Shannon, R. M.

"Disentangling the Cosmic Web toward FRB 190608".

ApJ,

901, 134

(2020). https://doi.org/10.3847/1538-4357/abafc3 (O)

---

182 *Šlaus, B.; Smolčić, V.; Novak, M.; Fotopoulou, S.; Ciliegi, P.; Jurlin, N.; Ceraj, L.; Tisanić, K.; Birkinshaw, M.; Bremer, M.; Chiappetti, L.; Horellou, C.; Huynh, M.; Intema, H.; Kolokythas, K.; and 8 coauthors

"The XXL Survey. XLI. Radio AGN luminosity functions based on the GMRT 610 MHz continuum observations".

A&A,

638, id.A46

(2020). https://doi.org/10.1051/0004-6361/201937258 (O)

---

183 *Smith, K. L.; Koss, M.; Mushotzky, R.; Wong, I. O.; Shimizu, T. T.; Ricci, C.; Ricci, F.

"Significant Suppression of Star Formation in Radio-quiet AGN Host Galaxies with Kiloparsec-scale Radio Structures".

ApJ,

904, 83

(2020). https://doi.org/10.3847/1538-4357/abc3c4 (O)

---

184 Soria, R.; Blair, W.P.; Long, K.S.; Russell, T.D.; Winkler, P.F.

"A new microquasar candidate in M83".

ApJ,

888, .103

(2020). https://doi.org/10.3847/1538-4357/ab5b0c (C)

---

185 *Spiewak, R.; Flynn, C.; Johnston, S.; Keane, E. F.; Bailes, M.; Barr, E. D.; Bhandari, S.; Burgay, M.; Jankowski, F.; Kramer, M.; and 3 coauthors

"The SUrvey for pulsars and extragalactic radio Bursts V: Recent discoveries and full timing solutions".

MNRAS,

496, 4836-4848

(2020). https://doi.org/10.1093/mnras/staa1869 (P)

---

186 *Stuardi, C.; O'Sullivan, S.P.; Bonafede, A.; Brüggen, M.; Dabhade, P.; Horellou, C.; Morganti, R.; Carretti, E.; Heald, G.; Iacobelli, M.; Vacca, V.

"The LOFAR view of intergalactic magnetic fields with giant radio galaxies".

A&A,

638, 48

(2020). https://doi.org/10.1051/0004-6361/202037635 (O)

---

187 Sun, J.; Leroy, A. K.; Ostriker, E. C.; Hughes, A.; Rosolowsky, E.; Schruba, A.; Schinnerer, E.; Blanc, G. A.; Faesi, C.; Kruijssen, J. M. D.; and 19 coauthors

"Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies".

ApJ,

892, 148

(2020). https://doi.org/10.3847/1538-4357/ab781c (C)

---

188 *Susobhanan, A.; Gopakumar, A.; Hobbs, G.; Taylor, S.R.

"Pulsar timing array signals induced by black hole binaries in relativistic eccentric orbits".

PhRvD,

101, id.043022

(2020). https://doi.org/10.1103/PhysRevD.101.043022 (O)

---

189 Tam, P.H.T.; Lee, K.K.; Cui, Y.; Hu, C.P.; Kong, A.K.H.; Li, K.L.; Tudor, V.; H., Xinbo; P., Partha S.

"A Multiwavelength Study of the γ-Ray Binary Candidate HESS J1832-093".

ApJ,

899, 75

(2020). https://doi.org/10.3847/1538-4357/ab9e76 (C)

---

190 *Tang, H.; Scaife, A. M. M.; Wong, O. I.; Kapińska, A. D.; Rudnick, L.; Shabala, S. S.; Seymour, N.; Norris, R. P.;

"Radio Galaxy Zoo: new giant radio galaxies in the RGZ DR1 catalogue".

MNRAS,

499, 68-76

(2020). https://doi.org/10.1093/mnras/staa2805 (O)

---

191 *Tingay, S. J.; Miller-Jones, J. C. A.; Lenc, E.

"Archival VLBA Observations of the Cygnus A Nuclear Radio Transient (Cyg A-2) Strengthen the Tidal Disruption Event Interpretation."

ApJ,

901, L17

(2020). https://doi.org/10.3847/2041-8213/abb60d (O)

---

192 Tramonte, D.; Ma, Y.-Z.

"The neutral hydrogen distribution in large-scale haloes from 21-cm intensity maps".

MNRAS,

498, 5916-5935

(2020). https://doi.org/10.1093/mnras/staa2727 (P)

---

193 *Tremblay, C. D.; Gray, M. D.; Hurley-Walker N.; Green, J. A.; Dawson, J. R.; Dickey, J. M.; Jones, P. A.; Tingay, O. I.

"Nitric Oxide and Other Molecules: Molecular Modeling and Low-frequency Exploration Using the Murchison Widefield Array".

ApJ,

905, 65

(2020). https://doi.org/10.3847/1538-4357/abc33a (O)

---

194 *Tremblay, C. D.; Green, J. A.; Mader, S. L.; Phillips, C. J.; Whiting, M.

"First search for low-frequency CH with a Square Kilometre Array precursor telescope".

PASA,

37, e055

(2020). https://doi.org/10.1017/pasa.2020.48 (A)

---

195 *Tremblay, C.D.; Tingay, S.J.

"A SETI survey of the Vela region using the Murchison Widefield Array: Orders of magnitude expansion in search space".

PASA,

37, e035

(2020). https://doi.org/10.1017/pasa.2020.27 (O)

---

196 *Troja, E.; van Eerten, H.; Zhang, B.; Ryan, G.; Piro, L.; Ricci, R.; O'Conner, B.; Wieringa, M. H.; Cenko, S. B.; Sakamoto, T.

"A thousand days after the merger: Continued X-ray emission from GW170817".

MNRAS,

498, 5643-5651

(2020). https://doi.org/10.1093/mnras/staa2626 (C)

---

197 *Trott, C.M.; Jordan, C.H.; Midgley, S.; Barry, N.; Greig, B.; Pindor, B.; Cook, J.H.; Sleap, G.; Tingay, S.J.; Ung, D.; and 26 coauthors

"Deep multiredshift limits on Epoch of Reionization 21 cm power spectra from four seasons of Murchison Widefield Array observations".

MNRAS,

493, 4711-4727

(2020). https://doi.org/10.1093/mnras/staa414 (O)

---

198 *Valverde, J.; Horan, D.; Bernard, D.; Fegan, S.; Fermi-LAT Collaboration; Abeysekara, A.U.; Archer, A.; Benbow, W.; Bird, R.; Brill, A.; and 81 coauthors

"A decade of multiwavelength observations of the TeV Blazar 1ES 1215+303: Extreme shift of the synchrotron peak frequency and long-term optical-gamma-ray flux increase".

ApJ,

891, 170

(2020). https://doi.org/10.3847/1538-4357/ab765d (O)

---

199 van den Eijnden, J.; Degenaar, N.; Russell, T.D.; Buisson, D.J.K.; Altamirano, D.; Armas Padilla, M.; Bahramian, A.; Castro Segura, N.; Fogantini, F.A.; Heinke, C.O.; and 11 coauthors

"The variable radio counterpart of Swift J1858.6-0814".

MNRAS,

496, 4127-4140

(2020). https://doi.org/10.1093/mnras/staa1704 (C)

---

200 *Velusamy, T.; Adumitroaie, V.; Arballo, J.; Levin, S. M.; Ries, P. A.: Dorcey, R.; Kreuser-Jenkins, N.; Leflang, J.; Jauncey, D.; Horiuchi, S.

"Goldstone Apple Valley Radio Telescope Monitoring Flux Density of Jupiter's Synchrotron Radiation during the Juno Mission".

PASP,

132, 16pp

(2020). https://doi.org/10.1088/1538-3873/aba69e (O)

---

201 Venkatraman Krishnan, V.; Bailes, M.; van Straten, W.; Wex, N.; Freire, P.C.C.; Keane, E.F.; Tauris, T.M.; Rosado, P.A.; Bhat, N.D.R.; Flynn, C.; and 2 coauthors

"Lense-Thirring frame dragging induced by a fast-rotating white dwarf in a binary pulsar system".

Science,

367, 577-580

(2020). https://doi.org/10.1126/science.aax7007 (P)

---

202 *Venkatraman Krishnan, V.; Flynn, C.; Farah, W.; Jameson, A.; Bailes, M.; Osłowski, S.; Bateman, T.; Gupta, V.; van Straten, W.; Keane, E.F.; and 15 coauthors

"The UTMOST survey for magnetars, intermittent pulsars, RRATs, and FRBs - I. System description and overview".

MNRAS,

482, 4752-4767

(2020). https://doi.org/10.1093/mnras/staa111 (O)

---

203 *Virkler, K.; Koca, J.; Soriano, M.; Horiuchi, S.;

"A Broadband Digital Spectrometer for the Deep Space Network".

ApJS,

251, 1

(2020). https://doi.org/10.3847/1538-4365/abbace (O)

---

204 *Voronkov, M.

"Ingest pipeline for ASKAP". In:

24th International Conference on Computing in High Energy and Nuclear Physics (CHEP2019), Adelaide Australia, 4-8 November

245,

(2020). https://doi.org/10.1051/epjconf/202024501038 (A)

---

205 *Wang, H. -H.; Lin, L. C. -C.; Dai, S.; Takata, J.; Li, K. L.; Hu, C. -P.; Hou, X.

"A Multiwavelength Study of PSR J1119-6127 after 2016 Outburst".

ApJ,

902, 96

(2020). https://doi.org/10.3847/1538-4357/abb3c4 (P)

---

206 *Wang, J.; Hobbs, G.; Kerr, M.; Shannon, R.; Dai, S.; Ravi, V.; Cameron, A.; Kaczmarek, J.F.; Hollow, R.; Li, Di; and 7 coauthors

"Probing the emission states of PSR J1107−5907".

ApJ,

889, 6

(2020). https://doi.org/10.3847/1538-4357/ab5d38 (P)

---

207 *Wang, S. Q.; Hobbs, G.; Wang, J.B.; Manchester, R.; Wang, N.; Zhang, S B.; Feng, Y.; Wang, W.-Y.; Li, D.; Dai, S.; Lee, K. J.; Dang, S. J.; Zhang, L.

"The Two Emission States of PSR B1534+12".

ApJ,

902, L13

(2020). https://doi.org/10.3847/2041-8213/abbb89 (O)

---

208 *Wang, S.Q.; Wang, J.B.; Hobbs, G.; Zhang, S.B.; Shannon, R.M.; Dai, S.; Hollow, R.; Kerr, M.; Ravi, V.; Wang, N.; Zhang, L.

"Radio observations of two intermittent pulsars: PSRs J1832+0029 and J1841-0500".

ApJ,

897, id.8

(2020). https://doi.org/10.3847/1538-4357/ab9302 (P)

---

209 *Wang, Z.; Murphy, T.; Kaplan, D. L.; Bannister, K. W.; Dobie, D.

"The capability of the Australian Square Kilometre Array Pathfinder to detect prompt radio bursts from neutron star mergers".

PASA,

37, e051

(2020). https://doi.org/10.1017/pasa.2020.42 (A)

---

210 Wen, Z. G.; Yan, W. M.; Yuan, J. P.; Wang, H. G.; Chen, J. L.; Mijit, M.; Yuen, R.; Wang, N.; Tu, Z. Y.; Dang, S. J.

"The Mode Switching in Pulsar J1326-6700".

ApJ,

904, 72

(2020). https://doi.org/10.3847/1538-4357/abbfa3 (P)

---

211 *White, S.V.; Franzen, T.M.O.; Riseley, C.J.; Wong, O.I.; Kapińska, A.D.; Hurley-Walker, N.; Callingham, J.R.; Thorat, K.; Wu, C.; Hancock, P.; and 14 coauthors

"The GLEAM 4-Jy (G4Jy) Sample: I. Definition and the catalogue".

PASA,

37, e018

(2020). https://doi.org/10.1017/pasa.2020.9 (O)

---

212 *White, S.V.; Franzen, T.M.O.; Riseley, C.J.; Wong, O.I.; Kapińska, A.D.; Hurley-Walker, N.; Callingham, J.R.; Thorat, K.; Wu., C.; Hancock, P.; and 14 coauthors

"The GLEAM 4-Jy (G4Jy) Sample: II. Host galaxy identification for individual sources".

PASA,

37, e017

(2020). https://doi.org/10.1017/pasa.2020.10 (O)

---

213 *Whiting, M.T.

"High-performance pipeline processing for ASKAP". In:

Astronomical Data Analysis Software and Systems XXVII, Santiago, Chile, 22-26 October, 2017,

522, 469

(2020). http://doi.org/1(1). 4225/(1)8/5a(l)a44751(1)141 (A)

---

214 *Wieringa, M.; Raja, W.; Ord, S.

"ASKAPsoft Pipeline Gets Ready for the Pilot Surveys". In:

Astronomical Data Analysis Software and Systems XXIX. ASP Conference Series, Groningen, the Netherlands, 6-10 October 2019,

527, 591

(2020). (A)

---

215 Wilber, A. G.; Johnston-Hollitt, M.; Duchesne, S. W.; Tasse, C.; Akamatsu, H.; Intema, H.; Hodgeson, T.

"ASKAP reveals giant radio halos in two merging SPT galaxy clusters".

PASA,

37, e040

(2020). https://doi.org/10.1017/pasa.2020.34 (A)

---

216 Wlodarczyk-Sroka, B. S.; Garrett, M. A.; Siemion, A. P.

"Extending the Breakthrough Listen nearby star survey to other stellar objects in the field".

MNRAS,

498, 5720-5729

(2020). https://doi.org/10.1093/mnras/staa2672 (P)

---

217 *Yan, W.M.; Manchester, R.N.; Wang, N.; Wen, Z.G.; Yuan, J.P.; Lee, K.J.; Chen, J.L.

"Periodic mode changing in PSR J1048-5832".

MNRAS,

491, 4634-4641

(2020). https://doi.org/10.1093/mnras/stz3399 (P)

---

218 *Yang, J.; Gurvits, L.I.; Paragi, Z.; Frey, S.; Conway, J.E.; Liu, X.; Cui, L.

"A parsec-scale radio jet launched by the central intermediate-mass black hole in the dwarf galaxy SDSS J090613.77+561015.2".

MNRAS,

495, L71-L75

(2020). https://doi.org/10.1093/mnrasl/slaa052 (O)

---

219 *Yonemaru, N.; Takahashi, K.; Kumamoto, H.; Dai, S.; Yoshiura, S.; Ideguchi, S.

"Artificial neural networks for selection of pulsar candidates from the radio continuum surveys".

MNRAS,

494, 1035-1044

(2020). https://doi.org/10.1093/mnras/staa742 (O)

---

220 Yu, Q.-Y.; Pan, Z.-C.; Qian, L.; Wang, S.; Yue, Y.-L.; Huang, M.-L,; Hao, Q. L.; You, S.-P.; Peng, B.; Zhu, Y.; and 2 coauthors

"A PRESTO-based parallel pulsar search pipeline used for FAST drift scan data".

Research in Astronomy and Astrophysics,

20, 91

(2020). http://iopscience.iop.org/raa (P)

---

221 Zakhvatkin, M. V.; Andrianov, A. S.; Avdeev, V. Yu.; Kostenko, V. I.; Kovalev, Y. Y.; Likhachev, S. F.; Litovchenko, I. D.; Litvinov, D. A.; Rudnitskiy, A. G.; Shchurov, M. A.; and 7 coauthors

"RadioAstron orbit determination and evaluation of its results using correlation of space-VLBI observations".

Advances in Space Research,

65, 798-812

(2020). https://doi.org/10.1016/j.asr.2019.05.007 (V)

---

222 *Zhang, C.; Wang, C.; Hobbs, G.; Russell, C. J.; Li, D.; Zhang, S.-B.; Dai, S.; Wu, J.-W.; Pan, Z.-C.; Zhu, W.-W.; Toomey, L.; Ren, Z.-Y.;

"Applying saliency-map analysis in searches for pulsars and fast radio bursts".

A&A,

642, 26

(2020). https://doi.org/10.1051/0004-6361/201937234 (P)

---

223 *Zhang, L.; Manchester, R. N.; Cameron, A. D.; Hobbs, G.; Li, D.; Zhu, Z; Wang, J.; Toomey, L.; Feng, Y.; Wang, S.; Zhang, S.

"Wideband Monitoring Observations of PSR J1803-3002A in the Globular Cluster NGC 6522".

ApJ,

905, L8

(2020). https://doi.org/10.3847/2041-8213/abca40 (P)

---

224 *Zhang, S.-B.; Hobbs, G.; Russell, C.J.; Toomey, L.; Dai, S.; Dempsey, J.; Manchester, R.N.; Johnston, S.; Staveley-Smith, L.; Wu, X.-F.; and 9 coauthors

"Parkes transient events. I. Database of single pulses, initial results, and missing Fast Radio Bursts".

ApJS,

249, 14

(2020). https://doi.org/10.3847/1538-4365/ab95a4 (P)

---

225 Zhang, Y.R.; Wang, H.G.; Huang, X.J.; Chen, J.L.

"Multifrequency study on the mode switching of PSR J0614+2229".

ApJ,

890, 31

(2020). https://doi.org/10.3847/1538-4357/ab65f3 (P)

---

226 *Zhang, Z.; Pober, J.; Li, W.; Hazelton, B. J.; Morales, M. F.; Trott, C. M.; Jordan, C. H.; Joseph, R. C.; Beardsley, A.; Barry, N.; Byrne, R.; and 19 coauthors

"The impact of tandem redundant/sky-based calibration in MWA Phase II data analysis".

PASA,

37, e045

(2020). https://doi.org/10.1017/pasa.2020.37 (O)

---

227 Zhao, Y,.; Heinke, C.O. ; Tudor, V. ; Bahramian, A. ; Miller-Jones, J.C.A. ; Sivakoff, G.R. ; Strader, J.; Chomiuk, L.; Shishkovsky, L.; Maccarone, T.J.; and 2 coauthors

"The MAVERIC survey: a hidden pulsar and a black hole candidate in ATCA radio imaging of the globular cluster NGC 6397".

MNRAS,

493, 6033-6049

(2020). https://doi.org/10.1093/mnras/staa631 (C)

---

228 *Zheng, Z.; Li, D.; Sadler, E. M.; Allison, J. R.; Tang, N.

"A pilot search for extragalactic OH absorption with FAST".

MNRAS,

499, 3085-3093

(2020). https://doi.org/10.1093/mnras/staa3033 (O)

---

229 *Zhu, W.; Li, D.; Luo, R.; Miao, C.; Zhang, B.; Spitler, L.; Lorimer, D.; Kramer, M.; Champion, D.; Yue, Y.; and 60 coauthors

"A Fast Radio Burst discovered in FAST drift scan survey".

ApJ,

895, L6

(2020). https://doi.org/10.3847/2041-8213/ab8e46 (O)

---

230 *Zic, A.; Murphy, T.; Lynch, C.; Heald, G.; Lenc, E.; Kapland, D.L.; Cairns, I. H.; Coward, D.; Gendre, B.; Johnston, H.; MacGregor, M.; Prince, D. C.; Wheatland, M. S.

"A Flare-type IV Burst Event from Proxima Centauri and Implications for Space Weather".

ApJ,

905, 23

(2020). https://doi.org/10.3847/1538-4357/abca90 (A)
