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2449 Kawabata, Miho ; Maeda, Keiichi ; Yamanaka, Masayuki ; Nakaoka, Tatsuya ; Kawabata, Koji
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- Connection among environment, cloud-cloud collision speed, and star formation activity in the strongly barred galaxy NGC 1300**
2450 Maeda, Fumiya ; Ohta, Kouji ; Fujimoto, Yusuke ; Habe, Asao
MNRAS, Volume 502, Issue 2, pp.2238-2250
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2451 Burgaz, Umut ; Maeda, Keiichi ; Kalomeni, Belinda ; Kawabata, Miho ; Yamanaka, Masayuki ;
Kawabata, Koji S. ; Kawahara, Naoki ; Nakaoka, Tatsuya
MNRAS, Volume 502, Issue 3, pp.4112-4124
April 2021
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2452 Sato, Toshiki ; Maeda, Keiichi ; Nagataki, Shigehiro ; Yoshida, Takashi ; Grefenstette, Brian ;
Williams, Brian J. ; Umeda, Hideyuki ; Ono, Masaomi ; Hughes, John P.
Nature, Volume 592, Issue 7855, p.537-540
April 2021
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2453 Kitaki, Takaaki ; Mineshige, Shin ; Ohsuga, Ken ; Kawashima, Tomohisa
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2454 Namekata, Kosuke ; Maehara, Hiroyuki ; Sasaki, Ryo ; Kawai, Hiroki ; Notsu, Yuta ; et al. ;
Okamoto, Soshi ; Isogai, Keisuke ; Kimura, Mariko ; Koiguchi, Naoto ; Wakamatsu, Yasuyuki ;
Tampo, Yusuke ; Nogami, Daisaku ; Shibata, Kazunari
PASJ, Volume 73, Issue 2, pp.485-485
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2455 Shidatsu, Megumi ; Iwakiri, Wataru ; Negoro, Hitoshi ; Mihara, Tatehiro ; Ueda, Yoshihiro ;
Kawai, Nobuyuki ; Nakahira, Satoshi ; Kennea, Jamie A. ; et al.
ApJ, Volume 910, Issue 2, id.144, 11 pp.
April 2021
- The eROSITA Final Equatorial-Depth Survey (eFEDS). An X-ray-bright, extremely luminous infrared galaxy at $z = 1.87$**
2456 Toba, Yoshiki ; Brusa, Marcella ; Liu, Teng ; Buchner, Johannes ; Terashima, Yuichi ; Urrutia,
Tanya ; Salvato, Mara ; Akiyama, Masayuki ; Arcodia, Riccardo ; Goulding, Andy D. ; Higuchi,
Yuichi ; Inoue, Kaiki T. ; Kawaguchi, Toshihiro ; Lamer, Georg ; Merloni, Andrea ; Nagao, Tohru
; Ueda, Yoshihiro ; Nandra, Kirpal
Astronomy & Astrophysics, Volume 649, id.L11, 9 pp.
May 2021
- UV line-driven disc wind as the origin of UltraFast Outflows in AGN**
2457 Mizumoto, Misaki ; Nomura, Mariko ; Done, Chris ; Ohsuga, Ken ; Odaka, Hirokazu
MNRAS, Volume 503, Issue 1, pp.1442-1458
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- 2458 **A candidate optically quiescent quasar lacking narrow emission lines**
Greenwell, Claire ; Gandhi, Poshak ; Stern, Daniel ; Boorman, Peter ; [Toba, Yoshiki](#) ; Lansbury, George ; Mainieri, Vincenzo ; Desira, Christopher
MNRAS: Letters, Volume 503, Issue 1, pp.L80–L84
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- 2459 **J–GEM optical and near–infrared follow–up of gravitational wave events during LIGO’s and Virgo’s third observing run**
Sasada, Mahito ; Utsumi, Yousuke ; Itoh, Ryosuke ; Tominaga, Nozomu ; Tanaka, Masaomi ; et al. ; [Nogami, Daisaku](#) ; et al. ; [Ohta, Kouji](#) et al.
Progress of Theoretical and Experimental Physics, Vol. 2021, Issue 5, id.05A104, 23 pp.
May 2021
- 2460 **Calcium–rich Transient SN 2019ehk in a Star–forming Environment: Yet Another Candidate for a Precursor of a Double Neutron–star Binary**
Nakaoka, Tatsuya ; [Maeda, Keiichi](#) ; Yamanaka, Masayuki ; Tanaka, Masaomi ; [Kawabata, Miho](#) ; et al. ; [Taguchi, Kenta](#) ; et al.
ApJ, Volume 912, Issue 1, id.30, 14 pp.
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- 2461 **How Does the Polar Dust Affect the Correlation between Dust Covering Factor and Eddington Ratio in Type 1 Quasars Selected from the Sloan Digital Sky Survey Data Release 16?**
[Toba, Yoshiki](#) ; [Ueda, Yoshihiro](#) ; Gandhi, Poshak ; Ricci, Claudio ; Burgarella, Denis ; Buat, Veronique ; Nagao, Tohru ; Oyabu, Shinki ; Matsuhara, Hideo ; Hsieh, Bau–Ching
ApJ, Volume 912, Issue 2, id.91, 15 pp.
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Hwang, Yu–Hsuan ; Wang, Wei–Hao ; Chang, Yu–Yen ; Lim, Chen–Fatt ; Chen, Chian–Chou ; Gao, Zhen–Kai ; et al. ; [Toba, Yoshiki](#)
ApJ, Volume 913, Issue 1, id.6, 19 pp.
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ApJ, Volume 913, Issue 1, id.17, 17 pp.
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Hiramatsu, Daichi ; Howell, D. Andrew ; Moriya, Takashi J. ; Goldberg, Jared A. ; et al. ; [Maeda, Keiichi](#) ; et al.
ApJ, Volume 913, Issue 1, id.55, 21 pp.
May 2021
- 2466 **Absorption Lines in the 0.91–1.33 μ m Spectra of Red Giants for Measuring Abundances of Mg, Si, Ca, Ti, Cr, and Ni**
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ApJ, Volume 913, Issue 1, id.62, 15 pp.
May 2021

- 2467 **A study of Si II and S II features in spectra of Type Ia supernovae**
Zhao, Xulin ; [Maeda, Keiichi](#) ; Wang, Xiaofeng ; Sai, Hanna
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June 2021
- 2468 **BAT AGN Spectroscopic Survey XXVII: scattered X-Ray radiation in obscured active galactic nuclei**
Gupta, K. K. ; Ricci, C. ; Tortosa, A. ; [Ueda, Y.](#) ; Kawamuro, T. ; et al.
MNRAS, Volume 504, Issue 1, pp.428–443
June 2021
- 2469 **The electron-capture origin of supernova 2018zd**
Hiramatsu, Daichi ; Howell, D. Andrew ; Van Dyk, Schuyler D. ; Goldberg, Jared A. ; [Maeda, Keiichi](#) ; et al.
Nature Astronomy, Volume 5, p. 903–910
June 2021
- 2470 **Discovery of new changing-look quasar 3C 332 and constraints for a double-peaked emission line scenario**
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[Kawanaka, Norita](#) ; [Mineshige, Shin](#)
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June 2021
- 2472 **Variability of Comptonized X-ray spectra of a super-Eddington accretor: Approach using Boltzmann radiation transport**
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ApJ, Volume 914, Issue 1, id.36, 17 pp.
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- 2475 **Active galactic nuclei catalog from the AKARI NEP-Wide field**
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Astronomy & Astrophysics, Volume 651, id.A108, 17 pp.
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- 2476 **A systematic study of silicate absorption features in heavily obscured AGNs observed by Spitzer/IRS**
 Tsuchikawa, T. ; Kaneda, H. ; Oyabu, S. ; Kokusho, T. ; Kobayashi, H. ; Yamagishi, M. ; Toba, Y.
 Astronomy & Astrophysics, Volume 651, id.A117, 21 pp.
 July 2021
- 2477 **Magnetically Arrested Disks in Quiescent Black Hole Binaries: Formation Scenario, Observable Signatures, and Potential PeVatrons**
 Kimura, Shigeo S. ; Sudoh, Takahiro ; Kashiyama, Kazumi ; Kawanaka, Norita
 ApJ, Volume 915, Issue 1, id.31, 11 pp.
 July 2021
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 ApJ, Volume 915, Issue 1, id.47, 12 pp.
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 Niiijima, K. ; Kimura, M. ; Wakamatsu, Y. ; Kato, T. ; Nogami, D. ; Isogai, K. ; Koijiguchi, N. ; et al.
 Variable Star Bulletin, No. 74
 July 2021
- 2480 **On the superhumps and mass ratio of CzeV404**
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 Variable Star Bulletin No. 75, 2 pages
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 Aryan, Amar ; Pandey, S. B. ; Zheng, WeiKang ; Filippenko, Alexei V. ; Vinko, Jozsef ; Ouchi, Ryoma ; et al. ; Maeda, Keiichi ; et al.
 MNRAS, Volume 505, Issue 2, pp.2530-2547
 August 2021
- 2485 **Polarization images of accretion flow around supermassive black holes: Imprints of toroidal field structure**
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Wang, Xiaofeng ; Lin, Weili ; Zhang, Jujia ; Zhang, Tianmeng ; Cai, Yongzhi ; et al. ; Maeda, Keiichi ; et al.
ApJ, Volume 917, Issue 2, id.97, 13 pp.
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- 2490 **The Sizes of Quasar Host Galaxies in the Hyper Suprime-Cam Subaru Strategic Program**
Li, Junyao ; Silverman, John D. ; Ding, Xuheng ; Strauss, Michael A. ; Goulding, Andy ; Birrer, Simon ; et al. ; Toba, Yoshiki ; et al.
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September 2021
- 2491 **The Final Months of Massive Star Evolution from the Circumstellar Environment around SN Ic 2020oi**
Maeda, Keiichi ; Chandra, Poonam ; Matsuoka, Tomoki ; Ryder, Stuart ; Moriya, Takashi J. ; Kuncarayakti, Hanindyoo ; Lee, Shiu-Hang ; Kundu, Esha ; Patnaude, Daniel ; Saito, Tomoki ; Folatelli, Gaston
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- 2492 **The JCMT BISTRO Survey: An 850/450 μ m Polarization Study of NGC 2071IR in Orion B**
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Onoue, Masafusa ; Matsuoka, Yoshiki ; Kashikawa, Nobunari ; Strauss, Michael A. ; Iwasawa, Kazushi ; et al. ; Toba, Yoshiki
ApJ, Volume 919, Issue 1, id.61, 11 pp.
September 2021
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Variable Star Bulletin No. 81, 6 pages, 4 figures
September 2021
- 2495 **A hard X-ray view of luminous and ultra-luminous infrared galaxies in GOALS - I. AGN obscuration along the merger sequence**
Ricci, C. ; Privon, G. C. ; Pfeifle, R. W. ; Armus, L. ; Iwasawa, K. ; Torres-Albà, N. ; Satyapal, S. ; et al. ; Ueda, Y. ; Yamada, S.
MNRAS, Volume 506, Issue 4, pp.5935-5950
October 2021

- 2496 **Optically detected galaxy cluster candidates in the AKARI North Ecliptic Pole field based on photometric redshift from the Subaru Hyper Suprime-Cam**
Huang, Ting-Chi ; Matsuhara, Hideo ; Goto, Tomotsugu ; Santos, Daryl Joe D. ; Ho, Simon C. -C. ; Kim, Seong Jin ; Hashimoto, Tetsuya ; et al. ; Toba, Yoshiki ; et al.
MNRAS, Volume 506, Issue 4, pp.6063-6080
October 2021
- 2497 **Environmental effects on AGN activity via extinction-free mid-infrared census**
Santos, Daryl Joe D. ; Goto, Tomotsugu ; Kim, Seong Jin ; Wang, Ting-Wen ; Ho, Simon C. -C. ; Hashimoto, Tetsuya ; Huang, Ting-Chi ; Lu, Ting-Yi ; On, Alvina Y. L. ; et al. ; Toba, Yoshiki ; et al.
MNRAS, Volume 507, Issue 2, pp.3070-3088
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Wakamatsu, Yasuyuki ; Thorstensen, John R. ; Koiguchi, Naoto ; Isogai, Keisuke ; Kimura, Mariko ; Ohnishi, Ryuhei ; Kato, Taichi ; et al.
PASJ, Volume 73, Issue 5, pp.1209-1224
October 2021
- 2499 **On the nature of the anomalous event in 2021 in the dwarf nova SS Cygni and its multi-wavelength transition**
Kimura, Mariko ; Yamada, Shinya ; Nakaniwa, Nozomi ; Makita, Yoshihiro ; Negoro, Hitoshi ; Shidatsu, Megumi ; Kato, Taichi ; Enoto, Teruaki ; Isogai, Keisuke ; et al.
PASJ, Volume 73, Issue 5, pp.1262-1279
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Kim, Eunbin ; Hwang, Ho Seong ; Jeong, Woong-Seob ; Kim, Seong Jin ; Burgarella, Denis ; Goto, Tomotsugu ; et al. ; Toba, Yoshiki ; et al.
MNRAS, Volume 507, Issue 3, pp.3113-3124
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ApJ, Volume 921, Issue 1, id.51, 15 pp.
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- 2509 **Optical Spectroscopy of Dual Quasar Candidates from the Subaru HSC-SSP program**
Tang, Shenli ; Silverman, John D. ; Ding, Xuheng ; Li, Junyao ; Lee, Khee-Gan ; Strauss, Michael A. ; et al. ; Toba, Yoshiki ; et al. ; Ueda, Yoshihiro ; Yasuda, Naoki
ApJ, Volume 922, Issue 1, id.83, 30 pp.
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- 2516 **Synchronized Coevolution between Supermassive Black Holes and Galaxies over the Last Seven Billion Years as Revealed by Hyper Suprime-Cam**
Li, Junyao ; Silverman, John D. ; Ding, Xuheng ; Strauss, Michael A. ; Goulding, Andy ; Schramm, Malte ; et al. ; Toba, Yoshiki ; Nagao, Tohru ; Imanishi, Masatoshi
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Jiang, Ji-an ; Maeda, Keiichi ; Kawabata, Miho ; Doi, Mamoru ; et al. ; Taguchi, Kenta ; Arima, Noriaki ; Beniyama, Jin ; Uno, Kohki ; Hamada, Taisei
ApJ Letters, Volume 923, Issue 1, id.L8, 14 pp.
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Yamada, Satoshi ; Ueda, Yoshihiro ; Tanimoto, Atsushi ; Imanishi, Masatoshi ; Toba, Yoshiki ; Ricci, Claudio ; Privon, George C.
ApJ Supplement Series, Volume 257, Issue 2, id.61, 67 pp.
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PASP, Volume 134, Issue 1031, id.015004, 39 pp.
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Asada, Yoshihisa ; Ohta, Kouji
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- 2522 **Warm Absorbers in the Radiation-driven Fountain Model of Low-mass Active Galactic Nuclei**
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Astronomy & Astrophysics, Volume 658, id.A175, 16 pp.
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- 2525 **Probable detection of an eruptive filament from a superflare on a solar-type star**
Namekata, Kosuke ; Maehara, Hiroyuki ; Honda, Satoshi ; Notsu, Yuta ; Okamoto, Soshi ; et al. ;
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- 2526 **Where’s Swimmy?: Mining unique color features buried in galaxies by deep anomaly detection using Subaru Hyper Suprime-Cam data**
Tanaka, Takumi S. ; Shimakawa, Rhythm ; Shimasaku, Kazuhiro ; Toba, Yoshiki ; Kashikawa, Nobunari ; Tanaka, Masayuki ; Inoue, Akio K.
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- 2527 **Galaxy morphologies revealed with Subaru HSC and super-resolution techniques. I. Major merger fractions of $L_{UV} \sim 3-15 L_{UV}^*$ dropout galaxies at $z \sim 4-7$**
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PASJ, Volume 74, Issue 1, pp.73–91
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- 2528 **Chemical Stratification in a Long Gamma-Ray Burst Cocoon and Early-time Spectral Signatures of Supernovae Associated with Gamma-Ray Bursts**
Suzuki, Akihiro ; Maeda, Keiichi
ApJ, Volume 925, Issue 2, id.148, 17 pp.
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- 2529 **Resurrection of Nonthermal Emissions from Type Ib/c Supernova Remnants**
Yasuda, Haruo ; Lee, Shiu-Hang ; Maeda, Keiichi
ApJ, Volume 925, Issue 2, id.193, 12 pp.
February 2022
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Uchiyama, Hisakazu ; Yamashita, Takuji ; Toshikawa, Jun ; Kashikawa, Nobunari ; Ichikawa, Kohei ; Kubo, Mariko ; Ito, Kei ; Kawakatu, Nozomu ; Nagao, Tohru ; Toba, Yoshiki ; Ono, Yoshiaki ; Harikane, Yuichi ; Imanishi, Masatoshi ; et al.
ApJ, Volume 926, Issue 1, id.76, 16 pp.
February 2022
- 2531 **CO(2-1)/CO(1-0) Line Ratio on a 100 Parsec Scale in the Nearby Barred Galaxy NGC 1300**
Maeda, Fumiya ; Egusa, Fumi ; Ohta, Kouji ; Fujimoto, Yusuke ; Habe, Asao ; Asada, Yoshihisa
ApJ, Volume 926, Issue 1, id.96, 14 pp.
February 2022
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Kwon, Woojin; Pattle, Kate; Sadavoy, Sarah and 149 more (Nagata, T.)
ApJ, Volume 926, Issue 2, id.163, 13 pp.
February 2022
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Namekata, Kosuke ; Maehara, Hiroyuki ; Honda, Satoshi ; Notsu, Yuta ; Okamoto, Soshi ; et al. ; Nogami, Daisaku ; Shibata, Kazunari
ApJ Letters, Volume 926, Issue 1, id.L5, 8 pp.
February 2022

- 2534 **Emerging ordinary superhumps as the standard candle for WZ Sge stars**
Kato, Taichi
Variable Star Bulletin No. 90, 18 pages, 5 figures
February 2022
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Pala, A. F. ; Gänsicke, B. T. ; Belloni, D. ; Parsons, S. G. ; Marsh, T. R. ; Schreiber, M. R. ; Breedt, E. ; Knigge, C. ; Sion, E. M. ; Szkody, P. ; Townsley, D. ; Bildsten, L. ; Boyd, D. ; Cook, M. J. ; De Martino, D. ; Godon, P. ; et al. ; Nogami, D. ; et al.
MNRAS, Volume 510, Issue 4, pp.6110–6132
March 2022
- 2536 **Properties of Type Ibn Supernovae: Implications for the Progenitor Evolution and the Origin of a Population of Rapid Transients**
Maeda, Keiichi ; Moriya, Takashi J.
ApJ, Volume 927, Issue 1, id.25, 17 pp.
March 2022
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Shidatsu, Megumi ; Kobayashi, Kohei ; Negoro, Hitoshi ; Iwakiri, Wataru ; Nakahira, Satoshi ; Ueda, Yoshihiro ; et al.
ApJ, Volume 927, Issue 2, id.151, 9 pp.
March 2022
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Matsuoka, Yoshiki ; Iwasawa, Kazushi ; Onoue, Masafusa ; Izumi, Takuma ; Kashikawa, Nobunari ; Strauss, Michael A. ; Imanishi, Masatoshi ; Nagao, Tohru ; Akiyama, Masayuki ; et al. ; Toba, Yoshiki ; et al.
ApJ Supplement Series, Volume 259, Issue 1, id.18, 19 pp.
March 2022
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Kato, Taichi ; Pavlenko, Elena P.
Variable Star Bulletin No. 93, 8 pages
March 2022
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Variable Star Bulletin No. 94, 9 pages, 5 figures
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Kato, Taichi
Variable Star Bulletin No. 95, 14 pages, 6 figures
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Kato, Taichi
Variable Star Bulletin No. 96, 8 pages, 3 figures
March 2022
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Kato, Taichi
Variable Star Bulletin No. 97
March 2022