

理論研究部 欧文査読付き論文リスト

2017H29年度 平成29年(2017年)4月1日から平成30年(2018年)3月31日までに出版・発表されたもの

注 ※1 台内者（別紙文献報告基準要領参照）が主導的に作成した論文や実際に講演を行った発表等には「*」

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※4 著者に外国機関に所属している研究者が含まれている論文には分かれる範囲で「*」

※1	著者	出版年	論文名	雑誌名	巻※8	ページもしくはID	※2	※3	※4	DOI	
*	Abbott, B. P., et al. (including Tanaka, M.):	2017	Multi-messenger Observations of a Binary Neutron Star Merger	ApJ	848	L12	*	*			
	Abdellaoui, G. et al. including Kajino T. (JEM EUSO Collaboration):	2017	Meteor studies in the framework of the JEM-EUSO program	Planetary and Space Science	143	245-255		*	10.1016/j.pss.2016.12.001		
	Abdellaoui, G. et al. including Kajino T. (JEM EUSO Collaboration):	2017	Cosmic-ray oriented performance studies for the JEM-EUSO first level trigger	Nuclear Inst. and Methods in Physics Research, Section A	866	150-163		*	10.1016/j.nima.2017.05.043		
	Aharonian, F., et al. (including Moriya, T. J.):	2018	Search for thermal X-ray features from the Crab nebula with the Hitomi soft X-ray spectrometer	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC	70	14	*	*	10.1093/pasj/psx072		
	Aihara, H., et al. (including Tanaka, M., Shirasaki M., Moriya, T. J.):	2018	The Hyper Suprime-Cam SSP Survey: Overview and Survey Design	PASJ	70	4	*	*			
	Arakawa, S.; Tanaka, H.; Kataoka, A.; Nakamoto, T.:	2017	Thermal conductivity of porous aggregates	ASTRONOMY & ASTROPHYSICS	608	L7			10.1051/0004-6361/20173218		
	Aso Y., Ohashi N., Aikawa Y., Machida M. N., Saigo K., aito M., Takakuwa, Tomida K., Tomisaka K., Yen Hsi-Wei; Williams Jonathan P.	2017	ALMA Observations of the Protostar L1527 IRS: Probing Details of the Disk and the Envelope Structures	The Astrophysical Journal	849	56			10.3847/1538-4357/aa8264		
	Aso Yusuke, Ohashi Nagayoshi, Aikawa Yuri, Machida Masahiro N., Saigo Kazuya, Saito Masao, Takakuwa Shigehisa, Tomida Kengo, Tomisaka Kohji, Yen Hsi-Wei, Williams Jonathan P.	2017	ALMA Observations of SMM11 Reveal an Extremely Young Protostar in Serpens Main Cluster	The Astrophysical Journal Letters	850	L23					
	Bauer, F. E., Treister, E., Schawinski, K., Schulze, S., Luo, B., Alexander, D. M., Brandt, W. N., Comastri, A., Forster, F., Gilli, R., Kann, D. A., Maeda, K., Nomoto, K., Paolillo, M., Ranalli, P., Schneider, D. P., Shemmer, O., Tanaka, M., Tolstov, A., Tominaga, N., Tozzi, P., Vignali, C., Wang, J., Xue, Y., Yang, G.	2017	A New, Faint Population of X-ray Transients	MNRAS	467	4841-4857	*	*			
	Bauer, FE; Treister, E; Schawinski, K; Schulze, S; Luo, B; Alexander, DM; Brandt, WN; Comastri, A; Forster, F; Gilli, R; Kann, DA; Maeda, K; Nomoto, K; Paolillo, M; Ranalli, P; Schneider, DP; Shemmer, O; Tanaka, M; Tolstov, A; Tominaga, N; Tozzi, P; Vignali, C; Wang, JX; Xue, YQ; Yang, G	2017	A new, faint population of X-ray transients	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	838 (2)	4841-4857			10.1093/mnras/stx417		
	Bersten, M. C., Folatelli, G., García, F., van Dyk, S. D., Benvenuto, O. G., Orellana, M., Buso, V., Sanchez, J. L., Tanaka, M., Maeda, K., Filippenko, A. V., Zheng, W., Brink, T. G., Cenko, S. B., de Jaeger, T., Kumar, S., Moriya, T. J., Nomoto, K., Perley, D. A., Shivvers, I., Smith, N.:	2018	A surge of light at the birth of a supernova	Nature	554	497-499	*	*			
*	Bisbas, T. G.; Tanaka, K. E. I.; Tan, J. C.; Wu, B.; Nakamura, F.	2017	GMC Collisions as Triggers of Star Formation. V. Observational Signatures	ApJ	850	23	*	*	10.3847/1538-4357/aa94c5		
*	Boyd, RN; Famiano, MA; Onaka, T; Kajino, T	2018	Sites that Can Produce Left-handed Amino Acids in the Supernova Neutrino Amino Acid Processing Model	ASTROPHYSICAL JOURNAL	856(1)	26		*	10.3847/1538-4357/aaad5f		
	Butler, MJ; Tan, JC; Teyssier, R; Rosdahl, J; Loo, SV; Nickerson, S	2017	Kiloparsec-scale Simulations of Star Formation in Disk Galaxies. IV. Regulation of Galactic Star Formation Rates	ASTROPHYSICAL JOURNAL	841(2)	82			10.3847/1538-4357/aa7054		
	Chen, K.-J., Heger, A., Whalen, D. J., Moriya, T. J., Bromm, V., Woosley, S.E.:	2017	Low-energy Population III supernovae and the origin of extremely metal-poor stars	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	467(4)	4731-4738	*	*	10.1093/mnras/stx470		
	Chen, K.-J., Moriya, T. J., Woosley, S., Sukhbold, T., Whalen, D. J., Suwa, Y., Bromm, V.:	2017	Magnetar-powered Supernovae in Two Dimensions. II. Broad-line Supernovae Ic	ASTROPHYSICAL JOURNAL	95(8)	85	*	*	10.3847/1538-4357/aa68a4		
	Chen, KJ; Whalen, DJ; Wollenberg, KMJ; Glover, SCD; Klessen, RS	2017	How the First Stars Regulated Star Formation. II. Enrichment by Nearby Supernovae	ASTROPHYSICAL JOURNAL	844(2)	111			10.3847/1538-4357/aa7b34		
	Chen, T.-W., Nicholl, M., Smartt, S. J., Mazzali, P. A., Yates, R. M., Moriya, T. J., Inserra, C., Langer, N., Kruhler, T., Pan, Y.-C., Kotak, R., Galbany, L., Schady, P., Wiseman, P., Greiner, J., Schulze, S., Man, A. W. S., Jerkstrand, A., Smith, K. W., Dennefeld, M., Baltay, C., Bolmer, J., Kankare, E., Knust, F., Maguire, K., Rabinowitz, D., Rosatti, S., Sullivan, M., Young, D. R.:	2017	The evolution of superluminous supernova LSQ14mo and its interacting host galaxy system	ASTRONOMY & ASTROPHYSICS	602	A9		*	*	10.1051/0004-6361/201630163	
	Chiaki, G., Tominaga, N., Nozawa, T.	2017	Classification of extremely metal-poor stars: Absent region in A(C)-[Fe/H] Plane and the role of dust cooling	MOTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	472	L115-L119	*		10.1093/mnrasl/slx163		
	Christie, D; Wu, B; Tan, JC	2017	GMC Collisions as Triggers of Star Formation. IV. The Role of Ambipolar Diffusion	ASTROPHYSICAL JOURNAL	848(1)	50			10.3847/1538-4357/aa8a99		
	De Buizer, JM; Liu, MY; Tan, JC; Zhang, YC; Beltran, MT; Shuping, R; Staff, JE; Tanaka, KEI; Whitney, B.	2017	The SOFIA Massive (SOMA) Star Formation Survey. I: Overview and First Results	ASTROPHYSICAL JOURNAL	843(1)	33			10.3847/1538-4357/aa74c8		
*	de Jaeger, T., Galbany, L., Filippenko, A. V., Gonzalez-Gaitan, S., Yasuda, N., Maeda, K., Tanaka, M., Morokuma, T., Moriya, T. J., Tominaga, N., Nomoto, K., Komiyama, Y., Anderson, J. P., Brink, T. G., Carlberg, R. G., Folatelli, G., Hamuy, M., Pignata, G., Zhen, W.:	2017	SN 2016jh at redshift 0.34: extending the Type II supernova Hubble diagram using the standard candle method	MNRAS	472	4233-4243	*	*			
	Ding, XH; Treu, T; Suyu, SH; Wong, KC; Morishita, T; Park, D; Sluse, D; Auger, MW; Agnello, A; Bennert, VN; Collett, TE	2017	HOLICOW VII: cosmic evolution of the correlation between black hole mass and host galaxy luminosity	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	472(1)	90-103			10.1093/mnrasl/slx1972		
	Eichler, M; Nakamura, K; Takiwaki, T; Kuroda, T; Kotake, K; Hempel, M; Cabezon, R; Liebendorfer, M; Thielemann, FK	2018	Nucleosynthesis in 2D core-collapse supernovae of 11.2 and 17.0M(circle dot) progenitors: Implications for Mo and Ru production	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	45(1)	14001			10.1088/1361-6471/aa8891		
*	Famiano, MA; Boyd, RN; Kajino, T; Onaka, T	2018	Selection of Amino Acid Chirality via Neutrino Interactions with N-14 in Crossed Electric and Magnetic Fields	ASTROBIOLOGY	18(2)	190-206		*	10.1089/ast.2017.1686		
	Gabanyi, K. E., Frey, S., Paragi, Z., Jarvela, E., Morokuma, T., Tanaka, M., Tar, I. :	2017	The radio structure of the peculiar narrow-line Seyfert 1 galaxy candidate J1100+4421	MNRAS	473	1554-1561	*	*			
	Hanawa, T; Kudoh, T; Tomisaka, K	2017	Fragmentation of a Filamentary Cloud Permeated by a Perpendicular Magnetic Field	ASTROPHYSICAL JOURNAL	848 (1)	2			10.3847/1538-4357/aa86d6		
	Hirai, Y; Ishimaru, Y; Saitoh, TR; Fujii, MS; Hidaka, J; Kajino, T	2017	Early chemo-dynamical evolution of dwarf galaxies deduced from enrichment of r-process elements	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	466(2)	2474-2487	*		10.1093/mnras/stw3342		
	Hirai, Y; Saitoh, T. R.; Ishimaru, Y.; Wanajo, S.	2018	Enrichment of Zinc in Galactic Chemodynamical Evolution Models	ApJ	855	63			10.3847/1538-4357/aaaabc		
	Hirai, Y; Saitoh, TR	2017	Efficiency of Metal Mixing in Dwarf Galaxies	ASTROPHYSICAL JOURNAL	838	L23			10.3847/2041-8213/aa6799		

	Hirashita, H; Nozawa, T	2017	Dust evolution with active galactic nucleus feedback in elliptical galaxies	PLANETARY AND SPACE SCIENCE	149 (SI)	45-55			10.1016/j.pss.2017.01.009
	Horiuchi, S; Nakamura, K; Takiwaki, T ; Kotake, K	2017	Estimating the core compactness of massive stars with Galactic supernova neutrinos	JOURNAL OF PHYSICS G-MONTHLY	44 (11)	114001			10.1088/1361-6471/aa8f1f
	Horiuchi, S; Sumiyoshi, K; Nakamura, K; Fischer, T; Summa, A; Takiwaki, T ; Janka, H; Kotake, K	2018	Diffuse supernova neutrino background from extensive core-collapse simulations of 8–100 M-circle dot progenitors	NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	475 (1)	1363-1374			10.1093/mnras/stx3271
*	Ishikawa, S., et al (including Hamana, T.)	2017	The Galaxy-Halo Connection in High-redshift Universe: Details and Evolution of Stellar-to-halo Mass Ratios of Lyman Break	ApJ	841	8			10.3847/1538-4357/aa6d64
*	Izidoro, A.; Ogihara, M , Raymond, S. N., Morbidelli, A., Pierens, A., Bitsch, B., Cossou, C., Hersant, F.	2017	Breaking the chains: hot super-Earth systems from migration and disruption of compact resonant chains	MNRAS	470	1750-1770	*	*	10.1093/mnras/stx1232
*	Jiang, J.; Doi, M.; Maeda, K.; Shigeyama, T.; Nomoto, K.; Yasuda, N.; Jha, S. W.; Tanaka, M. ; Morokuma, T.; Tominaga, N.; Ivezic, Z.; Ruiz-Lapuente, P.; Stritzinger, M. D.; Mazzali, P. A.; Ashall, C.; Mould, J.; Baade, D.; Suzuki, N.; Connolly, A. J.; Patat, F.; Wang, L.; Yoachim, P.; Jones, D.; Furusawa, H.; Miyazaki, S.	2017	A hybrid type Ia supernova with an early flash triggered by helium-shell detonation	Nature	550	80-83	*	*	
*	Kajino, T ; Mathews, GJ	2017	Impact of new data for neutron-rich heavy nuclei on theoretical models for r-process nucleosynthesis	REPORTS ON PROGRESS IN PHYSICS	80(8)	84901		*	10.1088/1361-6633/aa6a25
	Kandori Ryo, Tamura Motohide, Kusakabe Nobuhiko, Nakajima Yasushi, Kwon Jungmi, Nagayama Takahiro, Nagata Tetsuya; Tomisaka Kohji , Tatematsu Ken'ichi	2017	Distortion of Magnetic Fields in a Starless Core: Near-infrared Polarimetry of FeSt 1-457	The Astrophysical Journal	845	32			
	Kandori Ryo, Tamura Motohide, Tomisaka Kohji , Nakajima Yasushi, Kusakabe Nobuhiko, Kwon Jungmi, Nagayama Takahiro, Nagata Tetsuya, Tatematsu Ken'ichi	2017	Distortion of Magnetic Fields in a Starless Core II: 3D Magnetic Field Structure of FeSt 1-457	The Astrophysical Journal	848	110			
	Kataoka, Akimasa; Tsukagoshi, Takashi; Pohl, Adriana; Muto, Takayuki; Nagai, Hiroshi; Stephens, Ian W.; Tomisaka, Kohji; Momose, Munetake	2017	The Evidence of Radio Polarization Induced by the Radiative Grain Alignment and Self-scattering of Dust Grains in a Protoplanetary Disk	The Astrophysical Journal Letters	844	L5		*	10.3847/2041-8213/aa7e33
	Katsuda, S.; Mori, M.; Janka, H.-T.; Wongwathanarat, A.; Nakamura, K.; Kotake, K.; Mori, K.; Muller, E.; Takiwaki, T. ; Tanaka, M. ; Tominaga, N.; Tsunemi, H.	2018	Intermediate-Mass-Elements in Young Supernova Remnants Reveal Neutron Star Kicks by Asymmetric Explosions	ApJ	856	18	*	*	10.3847/1538-4357/aab092
*	Kawashima, T ; Matsumoto, Y; Matsumoto, R	2017	A possible time-delayed brightening of the Sgr A* accretion flow after the pericenter passage of the G2 cloud	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	69 (3)	43	*		10.1093/pasj/psx015
*	Kitaki, T., Mineshige, S., Ohsuga, K. , Kawashima, T.	2017	Theoretical modeling of Comptonized X-ray spectra of super-Eddington accretion flow: Origin of hard excess in ultraluminous X-ray sources	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	69(6)	92	*		
*	Kobayashi, H. , Ohsuga, K., Takahashi, H.R., Kawashima, T., Asahina, Y., Takeuchi, S., Mineshige, S.	2018	Three-dimensional structure of clumpy outflow from supercritical accretion flow onto black holes	PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF JAPAN	70(2)	22	*		
	Kotake, K; Takiwaki, T ; Fischer, T; Nakamura, K; Martinez-Pinedo, G	2018	Impact of Neutrino Opacities on Core-collapse Supernova Simulations	ASTROPHYSICAL JOURNAL	853(2)	170			10.3847/1538-4357/aa716
	Kuroda, T; Kotake, K; Hayama, K; Takiwaki, T	2017	Correlated Signatures of Gravitational-wave and Neutrino Emission in Three-dimensional General-relativistic Core-collapse Supernova Simulations	ASTROPHYSICAL JOURNAL	851(1)	62			10.3847/1538-4357/aa988d
*	Kusakabe, M; Mathews, GJ; Kajino, T ; Cheoun, MK	2017	Review on effects of long-lived negatively charged massive particles on Big Bang Nucleosynthesis	INTERNATIONAL JOURNAL OF MODERN PHYSICS	26(8)	1741004		*	10.1142/S021830131741004X
	Lamb, G. P.; Tanaka, M ; Kobayashi, S.:	2018	Transient Survey Rates for Orphan Afterglows from Compact Merger Jets	MNRAS	476	4435-4441	*	*	
*	Li, B; Shirasaki, M	2018	Galaxy-galaxy weak gravitational lensing in f(R) gravity	MNRAS	474	3599-3614	*	*	10.1093/mnras/stx306
*	Mandelbaum, R et al. including Shirasaki M.	2018	The first-year shear catalog of the Subaru Hyper Suprime-Cam Subaru Strategic Program Survey	PASJ	70	25	*	*	10.1093/pasj/psx130
	Marchant, P.; Langer, N.; Podsiadlowski, Ph.; Tauris, T. M.; de Mink, S.; Mandel, I.; Moriya, T. J. :	2017	Ultra-luminous X-ray sources and neutron-star-black-hole mergers from very massive close binaries at low metallicity	ASTRONOMY & ASTROPHYSICS	604	A55	*	*	10.1051/0004-6361/201630188
*	Mathews, G. J.; Kusakabe, M., and Kajino, T. :	2017	Introduction to Big-Bang Nucleosynthesis and Modern Cosmology	Mod. Phys. Lett. E.	26	1741001 (21pp)		*	10.1142/S0218301317410014
	Matsumoto, Y; Kokubo, E	2017	Formation of Close-in Super-Earths by Giant Impacts: Effects of Initial Eccentricities and Inclinations of Protoplanets	ASTRONOMICAL JOURNAL	154	27			10.3847/1538-3881/aa74c7
	Michikoshi, S; Kokubo, E	2017	Dynamics of Porous Dust Aggregates and Gravitational Instability of Their Disk	ASTROPHYSICAL JOURNAL	842	61			10.3847/1538-4357/aa7388
	Milisavljevic, D.; Patnaude, D. J.; Raymond, J. C.; Drout, M. R.; Margutti, R.; Kamble, A.; Chornock, R.; Gullochon, J.; Sanders, N. E.; Parent, J. T.; Lovisari, L.; Chilingarian, I. V.; Challis, P.; Kirshner, R. P.; Penny, M. T.; Itagaki, K.; Eldridge, J. J.; Moriya, T. J. :	2017	iPTF15eqv: Multiwavelength Expose of a Peculiar Calcium-rich Transient	ASTROPHYSICAL JOURNAL	846(1)	50	*	*	10.3847/1538-4357/aa7d9f
*	Miyao, K., et al (including Hamana, T.)	2018	Multiwavelength study of X-ray luminous clusters in the Hyper Suprime-Cam Subaru Strategic Program S16A field	PASJ	70	S22		*	10.1093/pasj/psx132
*	Miyazaki, S., et al (including Hamana, T.)	2018	Hyper Suprime-Cam: System design and verification of image quality	PASJ	70	S1		*	10.1093/pasj/psx063
*	Miyazaki, S et al., including Shirasaki M	2018	A large sample of shear-selected clusters from the Hyper Suprime-Cam Subaru Strategic Program S16A Wide field mass maps	PASJ	70	27	*	*	10.1093/pasj/psx120
	Moriya, T. J. , Mazzali, P. A.; Tominaga, N.; Hachinger, S.; Blinnikov, S. I.; Tauris, T. M.; Takahashi, K.; Tanaka, M ; Langer, N.; Podsiadlowski, Ph.:	2017	Light-curve and spectral properties of ultra-stripped core-collapse supernovae leading to binary neutron stars	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	466(2)	2085-2098	*	*	10.1093/mnras/stw3225
	Moriya, T. J. , Sorokina, E. I.; Chevalier, R. A.:	2018	Superluminous Supernovae	SPACE SCIENCE REVIEWS	214(2)	59	*	*	10.1007/s11214-018-0493-6

	Moriya, T. J., Tanaka, M., Morokuma, T., Ohsuga, K. :	2017	Superluminous transients at AGN centers from interaction between black-hole disk winds and broad-line region clouds	ApJ	843	L19	*			
	Moriya, T. J., Terreran, G., Blinnikov, S. I.:	2018	OGLE-2014-SN-073 as a fallback accretion powered supernova	Monthly Notices of the Royal Astronomical Society	475	L11-L14	*	*	10.1093/mnrasl/slx200	
	Moriya, T. J., Yoon, S.-C., Grafener, G., Blinnikov, S. I.:	2017	Immediate dense circumstellar environment of supernova progenitors caused by wind acceleration: its effect on supernova light curves	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	469(1)	L108-L112	*	*	10.1093/mnrasl/slx056	
	Moriya, T. J.:	2018	Explosions of Thorne-Zytkow objects	Monthly Notices of the Royal Astronomical Society	475	L49-L51	*		10.1093/pasj/psx072	
	Morokuma, T., Tanaka, M., Tanaka, Y. T., Itoh, R., Tominaga, N., Gandhi, P., Pian, E., Mazzali, P., Ohta, K., Matsumoto, E., Shibata, T., Akimoto, H., Akitaya, H., Ali, G. B., Aoki, T., Doi, *	2017	OISTER Optical and Near-Infrared Monitoring Observations of a Peculiar Radio-Loud Active Galactic Nucleus SDSS J110006.07+442144.3	PASJ	69	82	*			
*	Murata, R; Nishimichi, T; Takada, M; Miyatake, H; Shirasaki, M; More, S; Takahashi, R; Osato, K	2018	Constraints on the Mass-Richness Relation from the Abundance and Weak Lensing of SDSS Clusters	APJ	854	120	*		10.3847/1538-4357/aaaab8	
	Nagao, T., Maeda, K., Tanaka, M. :	2017	Circumstellar Light Echo as a Possible Origin of the Polarization of Type IIP Supernovae	ApJ	847	111	*			
	Nyholm, A., Sollerman, J., Taddia, F., Fremling, C., Moriya, T. J., Ofek, E.O., Gal-Yam, A., De Cia, A., Roy, R., Kasliwal, M. M.,	2017	The bumpy light curve of Type IIn supernova iPTF13z over 3 years	ASTRONOMY & ASTROPHYSICS	605	A6	*	*	10.1051/0004-6361/20162990	
*	Ogihara, M., Kokubo, E., Suzuki, T. K., Morbidelli, A., Crida, A.	2017	Effects of global gas flows on type I migration	A&A	608	A74	*	*	10.1051/0004-6361/20173077	
	Ohtani, Y., Suzuki, A., Shigeyama, T., Tanaka, M.:	2018	X-ray Light Curve and Spectra of Shock Breakout in a Wind	ApJ	853	52	*		10.3847/1538-4357/aaa482	
*	Osato, K.; Flender, S.; Nagai, D.; Shirasaki, M.; Yoshida, N	2018	Investigating cluster astrophysics and cosmology with cross-correlation of the thermal Sunyaev-Zel'dovich effect	MNRAS	475	532-542	*	*	10.1093/mnras/stx3215	
	Perez-Martinez, JM; Ziegler, B; Verdugo, M; Bohm, A; Tanaka, M	2017	Galaxy kinematics in the XMMSL J2235-2557 cluster field at z similar to 1.4	ASTRONOMY & ASTROPHYSICS	605	A127			10.1051/0004-6361/20163016	
*	Pian, E., D'Avanzo, P., Benetti, S., Branchesi, M., Bracato, E., Campana, S., Cappellaro, E., Covino, S., D'Elia, V., Fynbo, J. P. U., Getman, F., Ghirlanda, G., Ghisellini, G., Grado, A., Greco, G., Hjorth, J., Kouveliotou, C., Levan, A., Limatola, L., Malesani, D., Mazzali, P. A., Melandri, A., Moller, P., Nicastro, L., Palazzi, E., Piranomonte, S., Rossi, A., Salafia, O. S., Selsing, J., Stratta, G., Tanaka, M., Tanvir, N. R., Tomasella, L., Watson, D., Yang, S., Amati, L., Antonelli, L. A., Ascenzi, S., Bernardini, M. G., Boer, M., Bufano, F., Bulgarelli, A., Capaccioli, M., Casella, P., G., Castro-Tirado, A. J., Chassande-Mottin, E., Cioffi, R., Copperwheat, C. M., Dadina, M., De Cesare, G., Di Paola, A., Fan, Y. Z., Gendre, B., Giuffrida, G., Giunta, A., Hunt, L. K., Israel, G., Jin, Z.-P., Kasliwal, M., Klose, S., Lisi, M., Longo, F., Maiorano, E., Mapelli, M., Masetti, N., Nava, L., Patricelli, B., Perley, D., Pescalli, A., Piran, T., Possenti, A., Pulone, L., Razzano, M., Salvaterra, R., Schipani, P., Spera, M., Stamer, A., Stella, L., Tagliaferri, G., Testa, V., Troja, E., Turatto, M., Vergani, S. D., Vergani, D.:	2017	Spectroscopic identification of r-process nucleosynthesis in a double neutron star merger	Nature	551	67-70	*	*	10.1038/nature24298	
	Rusu, CE; Fassnacht, CD; Sluse, D; Hilbert, S; Wong, KC; Huang, KH; Suyu, SH; Collett, TE; Marshall, PJ; Treu, T; Koopmans, LVE	2017	HOLICOW-III: Quantifying the effect of mass along the line of sight to the gravitational lens HE 0435-1223 through weighted galaxy counts	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	467(4)	4220-4242			10.1093/mnras/stx285	
*	Santos, Fabio P.; Ade, Peter A. R.; Angl�e, Francesco E.; Ashton, Peter; Benton, Steven J.; Devlin, Mark J.; Dober, Bradley; Fissel, Laura M.; Fukui, Yasuo; Galitzki, Nicholas; Gandilo, Natalie N.; Klein, Jeffrey; Korotkov, Andrei L.; Li, Zhi-Yun; Martin, Peter G.; Matthews, Tristan G.; Moncelsi, Lorenzo; Nakamura, Fumitaka; Netterfield, Calvin B.; Novak, Giles; Pascale, Enzo; Poidevin, Fr�d�ric; Savini, Giorgio; Scott, Douglas; Shariff, Jamil A.; Diego Soler, Juan; Thomas, Nicholas E.; Tucker, Carole E.; Tucker, Gregory S.; Ward-Thompson, Derek	2017	Comparing Submillimeter Polarized Emission with Near-infrared Polarization of Background Stars for the Vela C Molecular Cloud	ApJ	161	22		*	10.3847/1538-4357/aa62a7	
*	Sasaki, H; Kajino, T; Takiwaki, T; Hayakawa, T; Balantekin, AB; Pehlivan, Y	2017	Possible effects of collective neutrino oscillations in three-flavor multiangle simulations of supernova vp processes	PHYSICAL REVIEW D	96(4)	43013	*	*	10.1103/PhysRevD.96.043013	
	Shibata, M., Fujibayashi, S., Hotokezaka, K., Kiuchi, K., Kyutoku, K., Sekiguchi, Y., Tanaka, M.:	2017	GW170817: Modeling based on numerical relativity and its Implications	PRD	96	123012	*		10.1103/PhysRevD.96.123012	
*	Shimoikura, T., Dobashi, K., Nakamura, F., Matsumoto, T.	2018	A Statistical Study of Massive Cluster-forming Clumps	ApJ	855	45			10.3847/1538-4357/aaaccd	
*	Shin, JW; Cheoun, MK; Kajino, T; Hayakawa, T	2017	A new scheme for short baseline electron antineutrino disappearance study	JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS	44 (9)	09LT01		*	10.1088/1361-6471/aa809e	
*	Shin, JW; Cheoun, MK; Kajino, T; Hayakawa, T	2017	Short-baseline electron antineutrino disappearance study by using neutrino sources from C-13 + Be-9 reaction	JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS	4	44		*	10.1088/1475-7516/2017/04/044	
*	Shirasaki, M; Kashiyama, K; Yoshida, N	2017	Large-scale clustering as a probe of the origin and the host environment of fast radio bursts	PRD	95	083012	*		10.1103/PhysRevD.95.083012	
	Shirasaki, M; Nishimichi, T; Li, B; Higuchi, Y	2017	The imprint of f (R) gravity on weak gravitational lensing II. Information content in cosmic shear statistics	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	466(2)	2402-2417			10.1093/mnras/stw3254	
*	Shirasaki, M; Takada, M; Miyatake, H; Takahashi, R; Hamana, T; Nishimichi, T; Murata, R	2017	Robust covariance estimation of galaxy-galaxy weak lensing: validation and limitation of jackknife covariance	MNRAS	470	3476-3496	*	*	10.1093/mnras/stx1477	
	Shirasaki, M; Kashiyama, K; Yoshida, N	2017	Large-scale clustering as a probe of the origin and the host environment of fast radio bursts	PHYSICAL REVIEW D		83012			10.1103/PhysRevD.95.083012	
	Shirasaki, M; Takada, M; Miyatake, H; Takahashi, R; Hamana, T; Nishimichi, T; Murata, R	2017	Robust covariance estimation of galaxy-galaxy weak lensing: validation and limitation of jackknife covariance	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	470(3)	3476-3496			10.1093/mnras/stx1477	
	Sluse, D; Sonnenfeld, A; Rumbaugh, N; Rusu, CE; Fassnacht, CD; Treu, T; Suyu, SH; Wong, KC; Auger, MW; Bonvin, V; Collett, T; Courbin, F; Hilbert, S; Koopmans, LVE; Marshall, PJ; Meylan, G; Spinelli, C; Tewes, M	2017	HOLICOW-II: Spectroscopic survey and galaxy-group identification of the strong gravitational lens system HE 0435-1223	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	470(4)	4838-4857			10.1093/mnras/stx1484	
	Sonnenfeld, A.; Chan, J. H. H.; Shu, Y.; More, A.; Oguri, M.; Suyu, S. H.; Wong, K. C.; Lee, C.-H.; Coupon, J.; Yonehara, A.; Bolton, A. S.; Jaelani, A. T.; Tanaka, M.; Miyazaki, S.; & Komiyama, Y.	2018	Survey of Gravitationally-lensed Objects in HSC Imaging (SuGOHI). I. Automatic search for galaxy-scale strong lenses	PASJ	70	S29			10.1093/pasj/pssx062	

	Sotani, H. , Kuroda, T., Takiwaki, T. , Kotake, K.:	2017	Probing mass-radius relation of protoneutron stars from gravitational-wave asteroseismology	PRD	96	063005.			
	Sotani, H.	2017	Pulse profiles from a pulsar in scalar-tensor gravity	PHYSICAL REVIEW D	96(10)	104010			10.1103/PhysRevD.96.104010
	Sotani, H. , Iida, K., Oyamatsu, K.:	2017	Probing crustal structures from neutron star compactness	MNRAS	470	4397-4407.			
	Sotani, H. , Miyamoto, U.:	2017	Sensitivity of pulsar light curves to spacetime geometry and efficacy of analytic approximations	PRD	96	104018.			
	Sotani, H. , Tatsumi, T.:	2017	Quark matter with strong magnetic field and possibility of the third family of compact stars	MNRAS	467	1249-1258.			
	Sotani, H. :	2017	Pulse profiles from a pulsar in scalar-tensor gravity	PRD	96	104010.			
	Sotani, H. ; Iida, K.; Oyamatsu, K	2017	Probing crustal structures from neutron star compactness	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	470(4)	4397-4407			10.1093/mnras/stx2150
	Sotani, H. ; Miyamoto, U	2017	Sensitivity of pulsar light curves to spacetime geometry and efficacy of analytic approximations	PHYSICAL REVIEW D	96(10)	104018			10.1103/PhysRevD.96.104018
	Sotani, H. ; Tatsumi, T	2017	Quark matter with strong magnetic field and possibility of the third family of compact stars	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	468(1)	1249-1258			10.1093/mnras/stx219
	Stephens, Ian W.; Yang, Haifeng; Li, Zhi-Yun; Looney, Leslie W.; Kataoka, Akimasa ; Kwon, Woojin; Fernández-López, Manuel; Hull, Charles L. H.; Hughes, Meredith; Segura-Cox, Dominique; Mundy, Lee; Crutcher, Richard; Rao, Ramprasad	2017	ALMA Reveals Transition of Polarization Pattern with Wavelength in HL Tau's Disk	The Astrophysical Journal	851	55		*	10.3847/1538-4357/aa998b
	Suyu, SH.; Bonvin, V.; Courbin, F.; Fassnacht, CD.; Rusu, CE.; Sluse, D.; Treu, T.; Wong, KC.; Auger, MW.; Ding, X.; Hilbert, S.; Marshall, P.J.; Rumbaugh, N.; Sonnenfeld, A.; Tewes, M.; Tikhonova, O.; Agnello, A.; Blandford, RD.; Chen, GCF.; Collett, T.; Koopmans, LVE.; Liao, K.; Meylan, G.; Spinelli, C	2017	HOLICOW-I. H-0 Lenses in COSMOGRAIL's Wellspring: program overview	MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY	468(3)	2590-2604			10.1093/mnras/stx483
	Takahashi, HR. ; Mineshige, S.; Ohsuga, K	2018	Supercritical Accretion onto a Non-magnetized Neutron Star: Why is it Feasible?	ASTROPHYSICAL JOURNAL	853	45			10.3847/1538-4357/aa082
	Takahashi, HR.; Ohsuga, K.	2017	General Relativistic Radiation MHD Simulations of Supercritical Accretion onto a Magnetized Neutron Star	ASTROPHYSICAL JOURNAL	845	L9			10.3847/2041-8213/aa8222
*	Takahashi, R.; Hamana, T.; Shirasaki, M.; Namikawa, T.; Nishimichi, T.; Osato, K.; Shiroyama, K	2017	Full-sky Gravitational Lensing Simulation for Large-area Galaxy Surveys and Cosmic Microwave Background Experiments	APJ	850	24	*	*	10.3847/1538-4357/aa943d
	Takiwaki, Tomoya ; Kotake, Kei	2018	Anisotropic emission of neutrino and gravitational-wave signals from rapidly rotating core-collapse supernovae	Monthly Notices of the Royal Astronomical Society	475(1)	p.L91-L95	*		10.1093/mnrasl/sly008
	Tanaka, M.	2017	Spectropolarimetry of stripped-envelope supernovae: observations and modelling	PHILOSOPHICAL TRANSACTIONS	375(2015)	20160273			10.1098/rsta.2016.0273
*	Tanaka, M. , Kato, D.; Gaigalas, G.; Rynkun, P.; Radziute, L.; Wanajo, S.; Sekiguchi, Y.; Nakamura, N.; Tanuma, H.; Murakami, I.; Sakae, A. H.:	2018	Properties of Kilonovae from Dynamical and Post-Merger Ejecta of Neutron Star Mergers	ApJ	852	109	*	*	
*	Tanaka, M. , Utsumi, Y.; Mazzali, P. A.; Tominaga, N.; Yoshida, M.; Sekiguchi, Y.; Morokuma, T.; Motohara, K.; Ohta, K.; Kawabata, K. S.; Abe, F.; Aoki, K.; Asakura, Y.; Baar, S.; Barway, S.; Bond, I. A.; Doi, M.; Fujiyoshi, T.; Furusawa, H.; Honda, S.; Itoh, Y.; Kawabata, M.; Kawai, N.; Kim, J. H.; Lee, C. H.; Miyazaki, S.; Morihara, K.; Nagashima, H.; Nagayama, T.; Nakao, T.; Nakata, F.; Ohsawa, R.; Ohshima, T.; Okita, H.; Saito, T.; Sumi, T.; Tajitsu, A.; Takahashi, J.; Takayama, M.; Tamura, Y.; Tanaka, I.; Tristram, P. J.; Terai, T.; Yasuda, N.; Zenko, T.:	2017	Kilonova from Post-merger Ejecta as an Optical and Near-infrared Counterpart of GW170817	PASJ	69	102	*	*	
	Tanaka, M. ; Kato, D.; Gaigalas, G.; Rynkun, P.; Radziute, L.; Wanajo, S.; Sekiguchi, Y.; Nakamura, N.; Tanuma, H.; Murakami, I.; Sakae, HA	2018	Properties of Kilonovae from Dynamical and Post-merger Ejecta of Neutron Star Mergers	ASTROPHYSICAL JOURNAL	852(2)	109			10.3847/1538-4357/aaa0cb
*	Taniguchi, K.; Saito, M.; Hirota, T.; Ozeki, H.; Miyamoto, Y.; Kaneko, H.; Minamidani, T.; Shimokura, T.; Nakamura, F. ; Dobashi, K	2017	Observations of Cyanopolynes toward Four High-mass Star-forming Regions Containing Hot Cores	ApJ	844	68	*	*	10.3847/1538-4357/aa7899
	Tatsuuma, M. ; Michikoshi, S.; Kokubo, E	2018	Gravitational Instability of a Dust Layer Composed of Porous Silicate Dust Aggregates in a Protoplanetary Disk	ASTROPHYSICAL JOURNAL	855	57			10.3847/1538-4357/aaaccc
	Terreran, G., et al. (including Moriya, T.J.):	2017	Hydrogen-rich supernovae beyond the neutrino-driven core-collapse paradigm	NATURE ASTRONOMY	1(10)	713-720	*	*	10.1038/s41150-017-0228-8
*	Tominaga, N.; Tanaka, M. ; Morokuma, T.; Utsumi, Y.; Yamaguchi, M. S.; Yasuda, N.; Tanaka, M.; Yoshida, M.; Fujiyoshi, T.; Furusawa, H.; Kawabata, K. S.; Lee, C.-H.; Motohara, K.; Ohsawa, R.; Ohta, K.; Terai, T.; Abe, F.; Aoki, W.; Asakura, Y.; Barway, S.; Bond, I. A.; Fujisawa, K.; Honda, S.; Ioka, K.; Itoh, Y.; Kawai, N.; Kim, J. H.; Koshimoto, N.; Matsubayashi, K.; Miyazaki, S.; Saito, T.; Sekiguchi, Y.; Sumi, T.; Tristram, P. J.:	2018	Subaru Hyper Suprime-Cam Survey for An Optical Counterpart of GW170817	PASJ	70	28	*	*	
	Tsukamoto, Y.; Okuzumi, S.; Kataoka, A	2017	Apparent Disk-mass Reduction and Planetesimal Formation in Gravitationally Unstable Disks in Class 0/I Young Stellar Objects	ASTROPHYSICAL JOURNAL	467 (2)	151			10.3847/1538-4357/aa6081
*	Utsumi, Y.; Tanaka, M. ; Tominaga, N.; Yoshida, M.; Barway, S.; Nagayama, T.; Zenko, T.; Aoki, K.; Fujiyoshi, T.; Furusawa, H.; Kawabata, K. S.; Koshida, S.; Lee, C. H.; Morokuma, T.; Motohara, K.; Nakata, F.; Ohsawa, R.; Ohta, K.; Okita, K.; Tajitsu, A.; Tanaka, I.; Terai, T.; Yasuda, N.; Abe, F.; Asakura, Y.; Bond, I. A.; Miyazaki, S.; Sumi, T.; Tristram, P. J.; Honda, S.; Itoh, R.; Itoh, Y.; Kawabata, M.; Morihara, K.; Nagashima, H.; Nakao, T.; Ohshima, T.; Takahashi, J.; Takayama, M.; Aoki, W.; Baar, S.; Doi, M.; Finet, F.; Kanda, N.; Kawai, N.; Kim, J. H.; Kuroda, D.; Liu, W.; Matsubayashi, K.; Murata, K. L.; Nagai, H.; Saito, T.; Saito, Y.; Sako, S.; Sekiguchi, Y.; Tamura, Y.; Tanaka, M.; Uemura, M.; Yamaguchi, M.:	2017	J-GEM observations of an electromagnetic counterpart to the neutron star merger GW170817	PASJ	69	101	*	*	
*	Utsumi, Y.; Tominaga, N.; Tanaka, M. ; Morokuma, T.; Yoshida, M.; Asakura, Y.; Finet, F.; Furusawa, H.; Kawabata, K. S.; Liu, W.; Matsubayashi, K.; Moritani, Y.; Motohara, K.; Nakata, F.; Ohta, K.; Terai, T.; Uemura, M.; Yasuda, N.:	2017	A Challenge to Identify an Optical Counterpart of the Gravitational Wave Event GW151226 with Hyper Suprime-Cam	PASJ	70	1	*		
	Wada Keiichi; Fukushige Ryosuke; Izumi Takuma; Tomisaka Kohji	2018	Circumnuclear Multi-phase Gas in the Circinus Galaxy. I. Non-LTE Calculations of CO Lines	The Astrophysical Journal	852	88			

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	Wilson, ML; Zabludoff, AI; Keeton, CR; Wong, KC ; Williams, KA; French, KD; Momcheva, IG	2017	A Spectroscopic Survey of the Fields of 28 Strong Gravitational Lenses: Implications for &TH&IT0	ASTROPHYSICAL JOURNAL	850 (1)	94			10.3847/1538-4357/aa9653
	Wong, KC ; Ishida, T; Tamura, Y; Suyu, SH; Oguri, M; Matsushita, S	2017	ALMA Observations of the Gravitational Lens SDP.9	ASTROPHYSICAL JOURNAL LETTERS	843 (2)	L35			10.3847/2041-8213/aa7d4a
	Wong, KC ; Raney, C; Keeton, CR; Umetsu, K; Zabludoff, AI; Ammons, SM; French, KD	2017	Joint Strong and Weak Lensing Analysis of the Massive Cluster Field J0850+3604	ASTROPHYSICAL JOURNAL	844(2)	127			10.3847/1538-4357/aa7c19
*	Wu, B ; Tan, JC ; Christie, D; Nakamura, F; Van Loo, S; Collins, D.	2017	GMC Collisions as Triggers of Star Formation. III. Density and Magnetically Regulated Star Formation	ApJ	841	88	*	*	10.3847/1538-4357/aa6ffa
*	Wu, B ; Tan, JC ; Christie, D; Nakamura, F; Collins, D., Li, Q.	2018	Giant molecular cloud collisions as triggers of star formation. VI. Collision-induced turbulence	PASJ	70	SP2	*	*	10.1093/pasj/psx140
	Wu, B ; Tan, JC ; Christie, D; Nakamura, F; Van Loo, S; Collins, D	2017	GMC Collisions as Triggers of Star Formation. III. Density and Magnetically Regulated Star Formation	ASTROPHYSICAL JOURNAL	841 (2)	88			10.3847/1538-4357/aa6ffa
*	Yamazaki, DG; Kusakabe, M; Kajino, T ; Mathews, GJ; Cheoun, MK	2017	The new hybrid BBN model with the photon cooling, X particle, and the primordial magnetic field	INTERNATIONAL JOURNAL OF MODERN PHYSICS E-NUCLEAR PHYSICS	26(8)	1741006		*	10.1142/S0218013317410063