

理論研究部 欧文査読付き論文リスト

2012/H24年度 平成24年(2012年)4月1日から平成25年(2013年)3月31までに出版・発表されたもの

注 ※ 1 当該組織の研究者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「*」

※	著者	出版年	論文名	雑誌名	巻	ページ
*	Aoki, W., Suda, T., Boyd, R. N., Kajino, T., Famiano, M. A.:	2013	New Insights into the Astrophysical r-Process	ApJL	766	13
	Aunai, N., Hesse, M., Zenitani, S., Kuznetsova, M., Black, C., Evans, R., Smets, R.:	2013	Comparison between hybrid and fully kinetic models of asymmetric magnetic reconnection: Coplanar and guide field configurations	Phys. Plasmas	20	022902-022902-10
*	Brasser, R., Ida, S., Kokubo, E.:	2013	A Dynamical Study on the Habitability of Terrestrial Exoplanets -I. Tidally Evolved Planet-Satellite Pairs	MNRAS	428	1673-1685
	Bufano, F et al. (including Tanaka, M.):	2012	The Fast and Faint SN 2010bh Associated with GRB 100316D	ApJ	753	67.
	Cheoun, M. K., Ha, E., Hayakawa, T., Chiba, S., Nakamura, K., Kajino, T., Mathews, G. J.:	2012	Neutrino induced reactions related to the neutrino-process nucleosynthesis of 92Nb and 98Tc	Phys. Rev. C	85	65807
	Cheoun, M. K., Ha, E., Kajino, T.:	2012	High-lying Excited States in Gamow-Teller Strength and Their Roles on Neutrino Reactions	Europ. Phys. J. A	48	137
*	Fujimoto, K., Sydora, R. D.:	2012	Plasmoid-induced turbulence in collisionless magnetic reconnection	Phys. Rev. Lett.	109	265004-1 - 265004-5
	Furuya, K., Aikawa, Y., Tomida, K., Matsumoto, T., Saigo, K., Tomisaka, K., Hersant, F., and Wakelam, V.:	2012	Chemistry in the First Hydrostatic Core Stage by Adapting Three-Dimensional Radiation Hydrodynamic Simulations	ApJ	758	86-105
*	Hamana, T., Oguri, M., Shirasaki, M., Sato, M.:	2012	Scatter and bias in weak lensing selected clusters	MNRAS	425	2287-2298
	Holt, J.D., Otsuka, T., Schwenck, A., Suzuki, T.:	2012	Three-body forces and structure in calcium isotopes	Journal of Physics G	39, 085111/1-7	
*	Ikoma, M., Hori, Y.:	2012	In Situ Accretion of Hydrogen-rich Atmospheres on Short-period Super-Earths: Implications for the Kepler-11 Planets	ApJ	753	66(6pp)
	Kamiya, Y., Tanaka, M., Nomoto, K., Blinnikov, S. I., Sorokina, E. I., Suzuki, T.:	2012	Super-Chandrasekhar-Mass Light Curve Models for the Highly Luminous Type Ia Supernova 2009dc	ApJ	756	191.
*	Kataoka, A., Machida, M. N., Tomisaka, K.:	2012	Exploring Magnetic Field Structure in Star-Forming Cores with Polarization of Thermal Dust Emission	ApJ	761	40-60
	Kawashima, T.; Ohsuga, K.; Mineshige, S.; Yoshida, T.; Heinzel, D.; Matsumoto, R.:	2012	Comptonized Photon Spectra of Supercritical Black Hole Accretion Flows with Application to Ultraluminous X-Ray Sources	ApJ	752	18-29
	Klimas, A., Hesse, M., Zenitani, S.:	2012	Particle-in-cell simulation of collisionless undriven reconnection with open boundaries	Phys. Plasmas	19	042901-1-042901-12
*	Kokubo, E., Ida, S.:	2012	Dynamics and Accretion of Planetesimals	Progress of Theoretical and Experimental Physics	01A308	23pp
*	Kotake, K., Takiwaki, T., Harikae Seiji:	2012	Gravitational Wave Signatures of Hyperaccreting Collapsar Disks	ApJ	755	14 pp
*	Kotake, K., Takiwaki, T., Yudai Suwa, Wakana Iwakami Nakano, Shio Kawagoe, Youhei Masada, Shin-ichiro Fujimoto:	2012	Multimessengers from Core-Collapse Supernovae: Multidimensionality as a Key to Bridge Theory and Observation,	Advances in Astronomy	428757	46pp
*	Kotake, K., Kohsuke Sumiyoshi, Shoichi Yamada, Tomoya Takiwaki, Takami Kuroda, Yudai Suwa, and Hiroki Nagakura:	2012	Core-collapse supernovae as supercomputing science: A status report toward six-dimensional simulations with exact Boltzmann neutrino transport in full general relativity	Progress of Theoretical and Experimental Physics	01A301	34pp
	Kuroda, T., Kotake, K., Takiwaki, T.:	2012	Fully General Relativistic Simulations of Core-collapse Supernovae with an Approximate Neutrino Transport	ApJ	755	11
*	Kusakabe, M., Balantekin, A. B., Kajino, T., Pehlivan, Y.:	2013	Solution to Big-Bang Nucleosynthesis in Hybrid Axion Dark Matter Model	Phys. Lett. B	718	704-708
*	Leinhardt, Z. M., Ogilvie, G. I., Latter, H. N., Kokubo, E.:	2012	Tidal Disruption of Satellites and Formation of Narrow Rings	MNRAS	424	1419-1431
	Machida, M., Nakamura, K., Kudoh, T., Akahori, T., Sofue, Y., Matsumoto, R.:	2013	Dynamo Activities Driven by Magnetorotational Instability and the Parker Instability in Galactic Gaseous Disks	ApJ	764	81
	Maruyama, T., Yasutake, N., Cheoun, M. K., Hidaka, J., Kajino, T., Mathews, G. J., Ryu, C. Y.:	2012	Relativistic mean-field treatment of pulsar kicks from neutrino propagation in magnetized proto-neutron stars	Phys. Rev. D	86	123003

*	Mathews, G. J., Kajino, T. , Aoki, W., Fujiya, W.:	2012	Preference for an Inverted Neutrino Mass Hierarchy from Neutrino-Process Nucleosynthesis with Finite theta13 Mixing	Phys. Rev. D	85	105023
	Melandri, A. et al. (including Tanaka, M.) :	2012	The Optical SN 2012bz Associated with the Long GRB 120422A	A&A	547	82.
	Misawa, Toru; Inada, Naohisa; Ohsuga, K. , Gandhi, Poshak; Takahashi, Rohta; Oguri, Masamune	2013	Spectroscopy along Multiple, Lensed Sight Lines through Outflowing Winds in the Quasar SDSS J1029+2623	AJ	145	48-59
	Moriya, T. J., Blinnikov, S. I., Tominaga, N., Yoshida, N., Tanaka, M., Maeda K., Nomoto, K. :	2013	Light Curve Modeling of Superluminous Supernova 2006gy: Collision between Supernova Ejecta and Dense Circumstellar Medium	MNRAS	428	1020-1035.
	Nakamura, F. , Takakuwa, S., Kawabe, R.	2012	Substellar-mass Condensations in Prestellar Cores	ApJL	758	25 (5pp)
*	Nishimura, N., Kajino, T. , Mathews, G. J., Nishimura, S., Suzuki, T. :	2012	Impact of New b-decay Half-lives on r-process Nucleosynthesis	Phys. Rev. C	85	48801
	Walsh, C., Millar, T.J., Nomura, H.	2013	Molecular Line Emission from a Protoplanetary Disk Irradiated Externally by a Nearby Massive Star	ApJL	766	23 (8pp)
	Ono M, Hashimoto M, Fujimoto S. Kotake K. , Yamada S:	2012	Explosive Nucleosynthesis in Magnetohydrodynamical Jets from Collapsars. II --- Heavy-Element Nucleosynthesis of s, p, r-Processes	Progress of Theoretical Physics	128	741-765
	Rapoport, S., Sim, S. A., Maeda, K., Tanaka, M. , Kromer, M., Schmidt, B. P., Nomoto, K. :	2012	A theoretical color- velocity correlation for supernovae associated with gamma- ray bursts	ApJ	759	38.
	Ryu, C. Y., Maruyama, T., Kajino, T. , Mathews, G. J., Cheoun, M. K.:	2012	Spin change of a proto-neutron star by emission of neutrinos	Phys. Rev. C	85	45803
	Ryu, C. Y., Cheoun, M. K., Kajino, T. , Maruyama, T., Mathews, G. J.:	2012	QHD description of the instability in strongly magnetized neutron stars	Astropart. Phys.	38	25-30
	Sasano, M., Suzuki, T. et al.,	2012	Excitation of Gamow-Teller distributions from 56Ni and 55Co via (p,n) reaction in inverse kinematics	Phys. Rev. C	86	034324/1-1
*	Sato, B., Omiya, M., Harakawa, H., Izumiura, H. , Kambe, E. , Takeda, Y. , Yoshida, M., Itoh, Y., Ando, H. , Kokubo, E. , Ida, S.:	2012	Substellar Companions to Seven Evolved Intermediate-Mass Stars	PASJ	64	1-14
*	Sato, B., Omiya, M., Wittenmyer, R. A., Harakawa, H., Nagasawa, M., Izumiura, H. , Kambe, E. , Takeda, Y. , Yoshida, M., Itoh, Y., Ando, H. , Kokubo, E. , Ida, S.:	2013	A Double Planetary System around the Evolved Intermediate-mass Star HD 4732	ApJ	762	9(7pp)
	Sawai Hidetomo, Yamada Shiochi, Kotake K. , Suzuki Hideyuki:	2012	Effects of Resistivity on Magnetized Core-collapse Supernovae	ApJ	764	38 pp
	Shigeyama, T., Suzuki, A., Nakamura, K.	2012	Early evolution of spherical ejecta expanding into the circumstellar matter at ultra-relativistic speeds	PASJ	64	87
	Shinnaga, H., Novak G., Vaillancourt, J E., Machida M N., Kataoka, A. , Tomisaka, K. , Davidson, J., Phillips, T G., Dowell C. D., Leeuw, L., and Houde, M.:	2012	Magnetic Field in the Isolated Massive Dense Clump IRAS 20126+4104	ApJL	750	29-33
	Shirasaki, M., Yoshida, N., Hamana, T. , Nishimichi, T.:	2012	Probing Primordial Non-Gaussianity with Weak Lensing Minkowski Functionals	ApJ	760	45
*	Sotani, H. , Nakazato, K., Iida, K., Oyamatsu, K.:	2012	Probing the Equation of State of Nuclear Matter via Neutron Star Asteroseismology	Phys. Rev. Lett.	108	201101 (4pp)
*	Sotani, H. , Nakazato, K., Iida, K., Oyamatsu, K.:	2013	Effect of superfluidity on neutron star oscillations	MNRAS	428	L21-L25
*	Suzuki, T. , Balantekin, A. B., Kajino, T. :	2012	Neutrino capture on 13C	Phys. Rev. C	86	15502
	Suzuki, T. , Honma, M., Otsuka, T., Kajino, T. :	2012	Gamow-Teller Strengths in Ni Isotopes and Nuclear Weak Processes	Progress of Theoretical Physics, Suppl.	196	382-38
	Suzuki, T. and Honma, M.:	2013	Neutrino capture reactions on 40Ar	Phys. Rev. C	87	014607/1-4
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*	Tanaka, M. , Kawabata, K. S., Hattori, T. , Mazzali, P. A., Aoki, K. , Iye, M. , Maeda, K., Nomoto, K., Pian, E., Sasaki, T. , Yamanaka, M.:	2012	Three- Dimensional Explosion Geometry of Stripped-Envelope Core- Collapse Supernovae. I. Spectropolarimetric Observations	ApJ	754	63.
*	Tanaka, M. , Moriya, T. J., Yoshida, N., Nomoto, K.:	2012	Detectability of High-Redshift Superluminous Supernovae with Upcoming Optical and Near-Infrared Surveys	MNRAS	422	2675-2684.
*	Tanaka, M. , Nozawa, T., Sakon, I., Onaka, T., Arimitsu K., Ohsawa, R., Maeda, K., Wada, T., Matsuhara, H., Kaneda, H.:	2012	A Search for Infrared Emission from Core-Collapse Supernovae at the Transitional Phase	ApJ	749	173.
	Tomida, K., Tomisaka, K. , Matsumoto, T., Hori , Y., Okuzumi, S., Machida, M.N., Saigo, K. :	2013	Radiation Magnetohydrodynamic Simulations of Protostellar Collapse: Protostellar Core Formation	ApJ	763	6-34

	Umebayashi, T., Katsuma, N., Nomura, H. :	2013	Effects of Dust Growth and Settling on the Ionization by Radionuclides. I. Formulation and Results in a Quiescent State of Protoplanetary Disks	ApJ	764	104 (21pp)
	Urata, Y., Tsai, P. P., Huang, K., Morokuma, T., Yasuda, N., Tanaka, M. , Motohara, K., Hayashi, M., Kashikawa, N. , Ly, C., Malkan, M A. :	2012	Unusual Long and Luminous Optical Transient in the Subaru Deep Field	ApJ	760	L11.
*	Yamazaki, D. G. , Kusakabe, M.:	2012	Effects of power law primordial magnetic field on big bang nucleosynthesis	Phys. Rev. D	86	123006-1-11
*	Yamazaki, D. G. , Kajino, T. , Mathew, G. J., Ichiki, K.:	2012	The Search for a Primordial Magnetic Field	Physics Reports	517	141-167.
	Yuan, C., Suzuki, T. , Otsuka, T., Xu, F., Tsunoda, N.	2012	Shell-model study of boron, carbon, nitrogen, and oxygen isotopes with monopole-based universal interaction	Phys. Rev. C	85	064324/1-12
*	Zenitani, S. , Shinohara, I., Nagai, T.:	2012	Evidence for the dissipation region in magnetotail reconnection	Geophys. Res. Lett.	39	L11102-1- L11102-5