

1 英文論文(査読あり)

対象:平成22年4月1日から平成23年3月31日まで / 2010年4月~2011年3月
 ※1 「*」...理論研究部所属の研究者が主導的に作成した論文。

※1	記述不要	著者	出版年	論文名	雑誌名	巻	ページ
*		Baba, J., Saitoh, T.R., Wada, K.	2010	On the Interpretation of the l-v Features in the Milky Way Galaxy	PASJ	62	1413-1422
		Bayliss, M. B., Gladders, M. D., Oguri, M., Hennawi, J. F., Sharon, K., Koester, B. P., Dahle, H.	2011	The Redshift Distribution of Giant Arcs in the Sloan Giant Arcs Survey	ApJ	727	L26
		Bayliss, M. B., Hennawi, J. F., Gladders, M. D., Koester, B. P., Sharon, K., Dahle, H., Oguri, M.	2011	Gemini/GMOS Spectroscopy of 26 Strong-lensing-selected Galaxy Cluster Cores	ApJS	193	8
*		Boyd, R. N., Kajino, T., Onaka, T.	2010	Supernovae and the Chirality of the Amino Acids	Astrobiology	10	561-568
		Caselli, P., Keto, E., Pagani, L., Akawa, Y.	2010	Water vapor toward starless cores: The Herschel view	A&A	521	29-33
		Cheoun, M. K., Ha, E., Lee, S. Y., Kim, K. S., So, W. Y., Kajino, T.	2010	Neutrino reactions on ¹² C by the quasiparticle random-phase approximation	Phys. Rev. C	81	28501
		Cheoun, M. K., Ha, E., Kim, K. S., Kajino, T.	2010	Neutrino reactions via neutral and charged current by quasi-particle random phase approximation (QRPA)	J. Phys. G	37	55101
		Cheoun, M. K., Hayakawa, T., Kajino, T., Chiba, S.	2010	Neutrino reactions on ¹³⁸ La and ¹⁸⁰ Ta via charged and neutral currents by the quasiparticle random phase approximation	Phys. Rev. C	82	35504
		Cheoun, M. K., Ha, E., Kajino, T.	2011	Neutrino reactions on Ar-40 for solar and core-collapsing supernova neutrinos	Phys. Rev. C	83	28801
		Fujii, M., Iwasawa, M., Funato, Y., Makino, J.	2010	The Origin of S-stars and a Young Stellar Disk: Distribution of Debris Stars of a Sinking Star Cluster	ApJ	716	L80-L84
		Fujii, M.S., Baba, J., Saitoh, T.R., Makino, J., Kokubo, E., Wada, K.	2011	The Dynamics of Spiral Arms in Pure Stellar Disks	ApJ	730	109
		Furuya, K., Akawa, Y., Sakai, N., Yamamoto, S.	2011	Carbon Isotope and Isotopomer Fractionation in Cold Dense Cloud Cores	ApJ	731	38-47
		Groen, D., Portegies Zwart, S., Ishiyama, T., Makino, J.	2011	High-performance gravitational N-body simulations on a planet-wide-distributed supercomputer	Comput. Sci. Discovery	4	015001
		Harikae, S., Kotaka, K., Takiwaki, T., Sekiguchi Y	2010	A General Relativistic Ray-tracing Method for Estimating the Energy and Momentum Deposition by Neutrino Pair Annihilation in Collapsars	ApJ	720	614-625
		Harikae, S., Kotaka, K., Takiwaki, T.	2010	Neutrino Pair Annihilation in Collapsars: A Ray-tracing Method in Special Relativity	ApJ	713	304-317
*		Hashimoto, J., et al. including Tamura, M., Kudo, T., Fukue, T., Kokubo, E., Hayano, Y., Hayashi, M., Hayashi, S., Ishii, M., Kandori, R., Kusakabe, N., Matsuo, T., Miyama, S., Morino, J.-I., Nishimura, T., Pyo, T.-S., Suto, H., Takato, N., Terada, H., Tomono, D., Takami, H., Usuda, T.	2011	Direct Imaging of Fine Structures in Giant Planet-forming Regions of the Protoplanetary Disk Around AB Aurigae	ApJ	729	L17-L20
		Hayakawa, T., Kajino, T., Chiba, S., Mathews, G. J.	2010	New Estimate for the Time-Dependent Thermal Nucleosynthesis of ¹⁸⁰ Tm in Supernova	Phys. Rev. C (Rapid Commu.)	81	52801
		Hayakawa, T., Mohr, P., Kajino, T., Chiba, S., Mathews, G. J.	2010	Reanalysis of the (J=5) state at 592 keV ¹⁸⁰ Ta and its role in the γ -process nucleosynthesis of ¹⁸⁰ Ta in supernova	Phys. Rev. C	82	58801
		Hikage, C., Takada, M., Hamana, T., Spergel, D.	2011	Shear power spectrum reconstruction using the pseudo-spectrum method	MNRAS	412	65-74
		Inada, N., et al. including Oguri, M., Morokuma, T.	2010	The Sloan Digital Sky Survey Quasar Lens Search. IV. Statistical Lens Sample from the Fifth Data Release	AJ	140	403-415.
		Inoue, T., Yamazaki, R., Inutsuka, S.	2010	Two-Step Acceleration Model of Cosmic Rays at Middle-Aged Supernova Remnants: Universality in Secondary Shocks	ApJ	723	L108-L112
		Inutsuka, S., Machida, M. N., Matsumoto, T.	2010	Emergence of Protoplanetary Disks and Successive Formation of Gaseous Planets by Gravitational Instability	ApJ	718	58-62
*		Ishiyama, T., Makino, J., Ebisuzaki, T.	2010	Gamma-ray Signal from Earth-mass Dark Matter Microhalos	ApJ	723	L195-L200
		Kawagoe, S., Yoshida, T., Kajino, T., Suzuki, H., Sumiyoshi, K., Yamada, S.	2010	Neutrino oscillation and expected event rate of supernova neutrinos in adiabatic explosion model	Phys. Rev. D	81	123014
		Kawaharada, M., Okabe, N., Umetsu, K., Takizawa, M., Matsushita, K., Fukazawa, Y., Hamana, T., Miyazaki, S., Nakazawa, K., Ohashi, T.	2010	Suzaku Observation of A1689: Anisotropic Temperature and Entropy Distribution Associated with the Large-Scale Structure	ApJ	714	423-441
		Kayo, I., Inada, N., Oguri, M., Morokuma, T., Hall, P. B., Kochanek, C. S., Schneider, D. P.	2010	Eight New Quasar Lenses from the Sloan Digital Sky Survey Quasar Lens Search	AJ	139	1614-1621
*		Kiuchi, K., Sakiguchi, Y., Shibata, M., Taniguchi, K.	2010	Exploring Binary-Neutron-Star-Merger Scenario of Short-Gamma-Ray Burst by Gravitational-Wave Observation	Phys. Rev. Lett.	104	141101
*		Kojima, K., Kajino, T., Mathews, G. J.	2010	Growth of Cosmological Perturbation by Extra Anisotropic Stress	J. Cosmol. Astropart. Phys.	2	18
*		Kokubo, E., Genda, H.	2010	Formation of Terrestrial Planets from Protoplanets under a Realistic Accretion	ApJ	714	L21-L25
		Kratzer, R. M., Richards, G. T., Goldberg, D. M., Oguri, M., Kochanek, C. S., Hodge, J. A., Becker, R. H., Inada, N.	2011	Analyzing the Flux Anomalies of the Large-separation Lensed Quasar SDSS J1029+2623	ApJ	728	L18
*		Kudoh, T., Basu, S.	2011	Formation of Collapsing Cores in Subcritical Magnetic Clouds: Three-dimensional Magnetohydrodynamic Simulations with Ambipolar Diffusion	ApJ	728	123
		Kuroda K. and the LCGT Collaboration	2010	Status of LCGT	Class. Quantum. Grav.	27	084004
		Kusakabe, M., Kajino, T., Yoshida, T., Mathews, G. J.	2010	New results on catalyzed BBN with a long-lived negatively-charged massive particle	Phys. Rev. D	81	83521
		Li Z.-Y., Wang, P., Abel, T., Nakamura, F.	2010	Lowering the Characteristic Mass of Cluster Stars by Magnetic Fields and Outflow Feedback	ApJ	720	L26-L30
*		Machida, M. N., Matsumoto, T.	2011	The origin and formation of the circumstellar disc	MNRAS	284	1-18
*		Machida, M. N., Inutsuka, S., Matsumoto, T.	2011	Recurrent Planet Formation and Intermittent Protostellar Outflows Induced by Episodic Mass Accretion	ApJ	729	42-59
*		Machida, M. N., Inutsuka, S., Matsumoto, T.	2010	Formation Process of the Circumstellar Disk: Long-term Simulations in the Main Accretion Phase of Star Formation	ApJ	724	1006-1020

*	Maehida, M. N., Kokubo, E. , Inutsuka, S., Matsumoto, T.	2010	Gas Accretion onto a Protoplanet and Formation of a Gas Giant Planet	MNRAS	405	1227–1243
	Maciejewski, A. J., Przybylska, M., Yoshida, H.	2010	Necessary conditions for classical superintegrability of a certain family of potentials in constant curvature spaces	J. Phys. A: Math. Theor.	43	382001.
	Maruyama, T., Kajino, T., Yasutake, N. , Cheoun, M.-K.; Ryu, O.-Y.	2011	Asymmetric neutrino emission from magnetized proto-neutron star matter including hyperons in relativistic mean field theory	PRD	83	081303
	Maruyama, T., Yasutake, N. , Tatsumi, T.	2010	Equation of State of Structured Matter at Finite Temperature	PTPSup.	186	69–74
*	Mathews, G. J., Pehlivan, Y., Kajino, T., Balantekin, A. B., Kusakabe, M.	2011	Quantum Statistical Corrections to Astrophysical Photodisintegration Rates at High Temperature	ApJ	727	10
	McGreer, I. Hall, P. B., Fan, X., Bian, F., Inada, N., Oguri, M., Strauss, M. A., Schneider, D. P., Farnsworth, K.	2010	SDSS J094604.90+183541.8: A Gravitationally Lensed Quasar at $z = 4.8$	AJ	140	370–378
*	Michikoshi, S., Kokubo, E. , Inutsuka, S.	2010	N-Body Simulation of Planetesimal Formation through Gravitational Instability and Coagulation. II. Accretion Model	ApJ	719	1021–1031
*	Maruta, H., Nakamura, F. , Nishi, R., Ikeda, N., Kitamura, Y.	2010	Physical Properties of Dense Cores in the ρ Ophiuchi Main Cloud and a Significant Role of External Pressures in Clustered Star Formation	ApJ	714	680–698
*	Nakamura, F. et al. including Kamazaki, T., Kawabe, R., Shimajiri, Y., Tachihara, K., Kurono, Y., Umemoto, T.	2011	The Molecular Outflows in the ρ Ophiuchi Main Cloud: Implications for Turbulence Generation	ApJ	726	46–
*	Nakamura, K. , Yoshida, T., Shigeyama, T., Kajino, T.	2010	Boron Synthesis in Type Ic Supernovae	ApJ	718	L137–L140
	Nishizawa, J. A., Takada, M., Hamana, T., Furusawa, H.	2010	A Clipping Method to Mitigate the Impact of Catastrophic Photometric Redshift Errors On Weak Lensing Tomography	ApJ	718	1252–1265
*	Oguri, M. , Takada, M., Okabe, N., Smith, G. P.	2010	Direct measurement of dark matter halo ellipticity from two-dimensional lensing shear maps of 25 massive clusters	MNRAS	405	2215–2230
*	Oguri, M. , Marshall, P. J.	2010	Gravitationally Lensed Quasars and Supernovae in Future Wide-Field Optical Imaging Surveys	MNRAS	405	2579–2593
*	Oguri, M.	2010	The Mass Distribution of SDSS J1004+4112 Revisited	PASJ	62	1017–1024
*	Oguri, M. , Takada, M.	2011	Combining cluster observables and stacked weak lensing to probe dark energy: Self-calibration of systematic uncertainties	Phys. Rev. D	83	023008
	Portegies Zwart, S., Ichiyama, T. , Groen, D., Nitadori, K., Makino, J. , de Laat, C., McMillan, S., Hiraki, K., Harfst, S., Grosso, P.	2010	Simulating the Universe on an Intercontinental Grid of Supercomputers	IEEE Computer	43	63–70
	Ryu, C. Y., Kajino, T., Maruyama, T., and Cheoun, M.K.	2011	Properties of the proto-neutron star with smeared trapped neutrinos	Phys. Rev. C	83	018802
	Saigo, K., Tomisaka, K.	2010	Spectrum Energy Distribution and Submillimeter Image of a Rotating First Core	ApJ	728	78–87
*	Saitoh, T.R., Makino, J.	2010	FAST: A Fully Asynchronous Split Time-Integrator for a Self-Gravitating Fluid	PASJ	62	301–314
	Sano, H., Sato, J., Yamamoto, H., Hayakawa, T., Torii, K., Moribe, N., Kawamura, A., Okuda, T., Mizuno, N., Onishi, T., Maezawa, H., Inoue, T. , Inutsuka, S., Tanaka, T., Mizuno, A., Ogawa, H., Stutzki, J., Bertoldi, F., Anderl, S., Bronfman, L., Koo, B. C., Burton, M. G., Benz, A. O., Fukui Y.	2010	Star Forming Dense Cloud Cores in the TeV gamma-ray SNR RX J1713.7–3946	ApJ	724	59–68
*	Sato, B., Omiya, M., Liu, Y., Harakawa, H., Izumura, H., Kambe, E., Toyota, E., Murata, D., Lee, B.-G., Masuda, S., Takeda, Y. , Yoshida, M., Itoh, Y., Ando, H., Kokubo, E. , Ida, S., Zhao, G., Han, I.	2010	Substellar Companions to Evolved Intermediate-Mass Stars: HD 145457 and HD 180314	PASJ	62	1063–1069
*	Sekiguchi, Y.	2010	An Implementation of the microphysics in full general relativity: a general relativistic leakage scheme	Class. Quantum. Grav.	27	114107
*	Sekiguchi, Y.	2010	Stellar core collapse in full general relativity with microphysics —Formulation and Spherical collapse test —	Prog. Theor. Phys.	124	331–379
	Sofue, Y., Machida, M., Kudoh, T.	2010	The Primordial Origin Model of Magnetic Fields in Spiral Galaxies	PASJ	62	1191–1201
	Sotani, H.	2010	Toroidal oscillations of slowly rotating relativistic star in tensor-vector-scalar theory	Phys. Rev. D	82	124061
	Sotani, H., Yasutake, N. , Maruyama, T., Tatsumi, T.	2011	Signatures of hadron-quark mixed phase in gravitational waves	Phys. Rev. D	83	024014
*	Sugitani, K., Nakamura, F., Tamura, M., Watanabe, M., Kandori, R., Nishiyama, S., Kusakabe, N. , Hashimoto, J., Nagata, T., Sato, S.	2010	Near-infrared Imaging Polarimetry of the Serpens Cloud Core: Magnetic Field Structure, Outflows, and Inflows in a Cluster Forming Clump	ApJ	716	299–314.
	Suwa, Y., Kotake, K., Takiwaki, T. , Whitehouse, S., Liebendoerfer, M., Sato, K.	2010	Explosion Geometry of a Rotating 13M $_{\odot}$ Star Driven by the SASI-Aided Neutrino-Heating Supernova Mechanism	PASJ	62	L49–L53
	Takahashi, R. H., Kotake, K., Yasutake, N.	2011	Magnetic Field Decay Due to the Wave-Particle Resonances in the Outer Crust of the Neutron Star	ApJ	728	151
	Takakuwa, S., Ohashi, N., Aikawa, Y.	2011	Carbon-chain and Organic Molecules Around Very Low Luminosity Protostellar Objects of L1521F-IRS and IRAM 04191+1522	ApJ	728	101–110
	Takeuchi, S., Ohsuga, K. , Mineshige, S.	2010	A Novel Jet Model: Magnetically Collimated, Radiation-Pressure Driven Jet	PASJ Lett	62	43–37
*	Tomida, K., Tomisaka, K. , Matsumoto, T., Ohsuga, K., Machida, M. N., Saigo, K.	2010	Radiation Magnetohydrodynamics Simulation of Proto-stellar Collapse: Two-component Molecular Outflow	ApJ	714	L58–L63
*	Tomida, K., Maehida, M. N., Saigo, K., Tomisaka, K. , Matsumoto, T.	2010	Exposed Long-lifetime First Core: A New Model of First Cores Based on Radiation Hydrodynamics	ApJ	725	L239–L244
*	Tomisaka, K.	2011	Origin of Molecular Outflow Determined from Thermal Dust Polarization	PASJ	63	147–158
	Tsukamoto, Y.	2011	The self gravity effect on the orbital stability of twodines	Icarus	212	911–921
	Yamazaki, D., Ichiki, K., Kajino, T. , Mathews, G. J.	2010	New constraint on the Primordial Magnetic Field	Phys. Rev. D	81	23008
	Yamazaki, D., Ichiki, K., Kajino, T. , Mathews, G. J.	2010	Constraint on the Neutrino Mass and Primordial Magnetic Field from σ_8	Phys. Rev. D	81	103519