

理論研究部 欧文査読付き論文リスト

2011/H23年度 平成23年(2011年)4月1日から平成24年(2012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「*」

※ 1	著者	出版年	論文名	雑誌名	巻	ページ
	Aikawa, Y., Kamuro, D., Sakon, I., Itoh, Y., Terada, H., Noble, J. A., Pontoppidan, K. M., Fraser, H. J., Tamura, M., Kandori, R., Kawamura, A., Ueno, M.:	2012	AKARI observations of ice absorption bands towards edge-on young stellar objects	A&A	538	57-68
	Bellagamba F., Maturi M., Hamana T., Meneghetti M., Miyazaki S., Moscardini L.:	2011	Optimal filtering of optical and weak lensing data to search for galaxy clusters: application to the COSMOS field	MNRAS	413	1145-1157
	Birn, J., Hesse, M., Zenitani, S.:	2011	Reconnection in compressible plasmas: Extended conversion region	Physics of Plasmas	18	111202
*	Boyd, R. N., Kajino, T., Onaka, T.:	2011	Supernovae, Neutrinos, and the Chirality of the Amino Acids	Int. J. Mol. Sci.	12	3432-3444
*	Boyd, R. N., Famiano, M., Meyer, B. S., Motizuki, Y., Kajino, T., Roederer, I. U.:	2011	The r-process in Metal Poor Stars, and Black Hole Formation	ApJ	744	L14-L17
	Cheoun, M. K., Kajino, T., Kusakabe, M., Mathews, G. M.:	2011	Time Dependent Quark Masses and Big Bang Nucleosynthesis Revisited	Phys. Rev. D	84	043001
	Cheoun, M. K., Ha, E., Kajino, T.:	2011	Neutrino reactions on 40Ar for solar and core-collapsing supernova neutrinos	Phys. Rev. C	83	028801
	E.F. van Dishoeck et al. (Y. Aikawa は16番目)	2011	Water in Star-forming Regions with the Herschel Space Observatory (WISH). I. Overview of Key Program and First Results	PASP	123	138-170
*	Enya, K. et al. including *Yamashita, T., *Narita, N., *Matsu, T., *Tamura, M., *Nishikawa, J., Kokubo, E.:	2011	The SPICA coronagraphic instrument (SCI) for the study of exoplanets	Adv. Space Res.	48	323-333
	Folatelli, G., Phillips, M. M., Morrell, N., Tanaka, M., Maeda, K., Nomoto, K., Stritzinger, M., Burns, C. R., Hamuy, M., Mazzali, P., Boldt, L., Campillay, A., Contreras, C., González, S., Roth, M., Salgado, F., Freedman, W. L., Madore, B. F., Persson, S. E., Suntzeff, N. B.:	2012	Unburned Material in the Ejecta of Type Ia Supernovae	ApJ	745	74 (17 pages)
*	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(14pp)
	Fujimoto, Shin-ichiro; Kotake, Kei; Hashimoto, Masa-aki; Ono, Masaomi; Ohnishi, Naofumi:	2011	Explosive Nucleosynthesis in the Neutrino-driven Aspherical Supernova Explosion of a Non-rotating 15 M_sun Star with Solar Metallicity	ApJ	738	id.61
	Furuya, K., Aikawa, Y., Sakai, N., Yamamoto, S.:	2011	Carbon Isotope and Isotopomer Fractionation in Cold Dense Cloud Cores	ApJ	731	38-47
*	Genda, E., Kokubo, E., Ida, S.	2012	Merging Criteria for Giant Impacts of Protoplanets	ApJ	744	137(8pp)
	Hesse, M., Neukirch, T., Schindler, K., Kuznetsova, M., Zenitani, S.:	2011	The Diffusion Region in Collisionless Magnetic Reconnection	Space Sci. Rev.	160	3-23
*	Hori, Y., Ikoma, M.:	2011	Gas Giant Formation with Small Cores Triggered by Envelope Pollution by Icy Planetesimals	MNRAS	416	1419-1429.
	Kawakatu, K., Ohsuga, K.:	2011	New Method for Exploring Super-Eddington AGNs by Near-infrared Observations	MNRAS	417	2562-2570
	Kawamura, Seiji; et al (135 authors)	2011	The Japanese space gravitational wave antenna: DECIGO	Class. Quantum Grav.	28	pp. 094011
*	Kominami, J.D., Makino, J., Daisaka, H.:	2011	Binary Formation in Planetesimal Disks I. Equal Mass Planetesimals	PASJ	63	1331-1344.
*	Kotake, Kei; Iwakami-Nakano, Wakana; Ohnishi, Naofumi	2011	Effects of Rotation on Stochasticity of Gravitational Waves in the Nonlinear Phase of Core-collapse Supernovae	ApJ	736	id. 124
	Kwon, J., Tamura, M., Kandori, R., Kusakabe, N., Hashimoto, J., Nakajima, Y., Nakamura, F., Nagayama, T., Nagata, T., Hough, J. H., Werner, N. R., Teixeira, P. S.:	2011	Complex Scattered Radiation Fields and Multiple Magnetic Fields in the Protostellar Cluster in NGC 2264	ApJ	741	35(30pp)
	Maciejewski, A., Przybylska, M., Yoshida, H.:	2012	Necessary conditions for the existence of additional first integrals for Hamiltonian systems with homogeneous potential	Nonlinearity	25	255-277.
*	Maruyama, T., Kajino, T., Yasutake, N., Cheoun, M. K., Ryu, C.::	2011	Asymmetric Neutrino Emission from Magnetized Proto-Neutron Stars in fully Relativistic Framework including Hyperons	Phys. Rev. D	83	081303

*	Matsui, H. , Saitoh, T. R., Makino, J., Wada, K., Tomisaka, K. , Kokubo, E., Daisaka, H., Okamoto, T., Yoshida, N.:	2012	Origin of Multiple Nuclei in Ultraluminous Infrared Galaxies	ApJ	746	26(11pp)
	H. Matsui, T.R. Saitoh, J. Makino, K. Wada, K. Tomisaka , E. Kokubo, H. Daisaka, T. Okamoto, and N. Yoshida:	2012	Origin of Multiple Nuclei in Ultraluminous Infrared Galaxies	ApJ	746	26
*	Michikoshi, S. , Kokubo, E.:	2011	Formation of a Propeller Structure by a Moonlet in a Dense Planetary Ring	ApJ	732	L23(4pp)
*	Michikoshi, S. , Kokubo, E., Inutsuka, S.:	2012	Secular Gravitational Instability of a Dust Layer in Shear Turbulence	ApJ	746	35(12pp)
	Mineshige,S., Ohsuga, K. :	2011	Supercritical accretion and ULXs - what can we achieve?	Astron. Nachr.	332	402
*	Nakamura, F. , Sugitani, K., Shimajiri, Y. , Tsukagoshi, T., Higuchi, A. , Nishiyama, S., Kawabe, R. , Takami, M., Karr, J. L., Gutermuth, R. A., Wilson, G.:	2011	Molecular Outflows from the Protocluster Serpens South	ApJ	737	56(17pp)
*	Nakamura, F. , Li, Z.-Y.:	2011	Clustered Star Formation in Magnetic Clouds: Properties of Dense Cores Formed in Outflow-driven Turbulence	ApJ	740	36(14pp)
*	Nakamura, F. , Miura, T., Kitamura, Y., Shimajiri, Y. , Kawabe, R. , Akashi, T., Ikeda, N., Tsukagoshi, T., Momose, M., Nishi, R., Li, Z.-Y.	2011	Nakamura, Fumitaka; Miura, Tomoya; Kitamura, Yoshimi; Shimajiri, Yoshito; Kawabe, Ryohei; Akashi, Yoshiya; Ikeda, Norio; Tsukagoshi, Takashi; Momose, Munetake; Nishi, Ryoichi; Li, Zhi-Yun	ApJ	746	25(14pp)
	Oguri M., Hamana T.:	2011	Detailed cluster lensing profiles at large radii and the impact on cluster weak lensing studies	MNRAS	414	1851-1861
*	Ohsuga, K. , Mineshige, S.:	2011	Global Structure of Three Distinct Accretion Flows and Outflows around Black Holes through Two-Dimensional Radiation-Magnetohydrodynamic Simulations	ApJ	736	2-19
*	Pehlivan, Y., Balantekin, A. B., Kajino, T. , Yoshida, T.:	2011	Invariants of Collective Neutrino Oscillations	Phys. Rev. D	84	065008
	Ryu, C. Y., Maruyama, T., Kajino, T. , Cheoun, M. K.:	2011	Properties of the proto-neutron star with smeared trapped neutrinos	Phys. Rev. C	83	018802
	Sakai, T., Sakai, N., Furuya, K., Aikawa, Y. , Hirota, T., Yamamoto, S.:	2012	DNC/HNC Ratio of Massive Clumps in Early Evolutionary Stages of High-mass Star Formation	ApJ	747	140-149
	Sato, M., Takada, M., Hamana T. , Matsubara T.:	2011	Simulations of Wide-field Weak-lensing Surveys. II. Covariance Matrix of Real-space Correlation Functions	ApJ	731	article id. 76
	H. Shimnaga, G. Novak, J. E. Vaillancourt, M. N. Machida, A. Kataoka, K. Tomisaka , J. Davidson, T. G. Phillips, C. D. Dowell, L. Leeuw, and M. Houde:	2012	Magnetic Field in the Isolated Massive Dense Clump IRAS	ApJ	750	L29-L33
*	Sotani, H.:	2011	Torsional oscillations in tensor-vector-scalar theory	Phys. Rev. D	83	124030 (6pages)
*	Sotani, H.:	2011	Constraints on Pasta Structure of Neutron Stars from Oscillations in Giant Flares	MNRAS Letter	417	L70-L73
	Sugimura, M., Yamaguchi, T., Sakai, T., Umemoto, T., Sakai, N., Takano, S., Aikawa, Y. , Hirano, N., Liu, S.-Y., Millar, T.J.:	2011	Early Results of the 3mm Spectral Line Survey toward the Lynds 1157 B1 Shocked Region	PASJ	63	459-472
	Sugitani, K., Nakamura, F. , Watanabe, M., Tamura, M. , Nishiyama, S., Nagayama, T., Kandori, R. , Nagata, T., Sato, S., Gutermuth, R. A., Wilson, G. W., Kawabe, R. :	2011	Near-infrared-imaging Polarimetry Toward Serpens South: Revealing the Importance of the Magnetic Field	ApJ	734	63(8pp)
	Suwa, Yudai; Kotake, Kei ; Takiwaki, Tomoya; Liebendörfer, Matthias; Sato, Katsuhiro:	2011	Impacts of Collective Neutrino Oscillations on Core-collapse Supernova Explosions	ApJ	738	id.165
	Suzuki, T., Honma, M., Mao, H., Otsuka, T., Kajino, T. :	2011	Evaluation of Electron Capture Reaction Rates in Ni Isotopes in Stellar Environments	Phys. Rev. C	83	044619
*	Suzuki, T., Yoshida, T., Kajino, T. , Otsuka, T.:	2012	Beta Decays of Isotones with Neutron Magic Number of N=126 and R-process Nucleosynthesis	Phys. Rev. C	85	015802
	Suzuki, T., Honma, M., Yoshida, T., Mao, H., Kajino, T. , T. Otsuka:	2011	Spin-dependent nuclear weak processes and nucleosynthesis in stars	Progress in Particle and Nuclear Physics,	66	385-389
	Takahashi R., Oguri M., Sato M., Hamana T. :	2011	Probability Distribution Functions of Cosmological Lensing: Convergence, Shear, and Magnification	ApJ	742	article id. 15
*	Takahashi, H. , Kudoh, T., Masada, Y., Matsumoto, J.:	2011	Scaling Law of Relativistic Sweet-Parker-type Magnetic Reconnection	ApJ	739	L53
	Takiwaki, Tomoya; Kotake, Kei :	2011	Gravitational Wave Signatures of Magnetohydrodynamically Driven Core-collapse Supernova Explosions	ApJ	743	id.30

	Tomisaka, K., Tomida, K.:	2011	Observational Identification of First Cores: Non-LTE Radiative Transfer Simulation	PASJ	63, 5	1151-1164
	Tsukamoto, Y., Machida N. M.:	2011	Classification of the circumstellar disc evolution during the main accretion phase	MNRAS	416	591-600
	Walsh, C., Nomura, H., Millar, T. J., Aikawa, Y.	2012	Chemical Processes in Protoplanetary Disks. II. On the Importance of Photochemistry and X-Ray Ionization	ApJ	747	114-132
*	Wang, L., Sato, B., Zhao, G., Liu, Y.-J., *Noguchi, K., *Ando, H., *Izumiura, H., *Kambe, E., Omiya, M., Harakawa, H., Liu, F. Wu, X.-S., *Takeda, Y., Yoshida, M., Kokubo, E. :	2012	A Substellar Companion to the Intermediate-mass Giant HD 175679	Res. Astron. Astrophys.	12	84-92
	Yamaguchi, T., Takano, S., Sakai, N., Sakai, T., Liu, S.-Y., Su, Y.-N., Hirano, N., Takakuwa, S., Aikawa, Y. , Nomura, H., Yamamoto, S.:	2011	Detection of Phosphorus Nitride in the Lynds 1157 B1 Shocked Region	PASJ	63	L37-L41
*	Yamazaki, D. , Ichiki, K., Takahashi, K.:	2011	Effects of a primordial magnetic field with log-normal distribution on the cosmic microwave background	Phys. Rev. D	84	123006
*	Yoshida, T., Takamura, A., Kimura, K., Kawagoe, Kajino, T. , T., Yokomakura, H.:	2011	Supernova neutrino signals in liquid Argon detector and neutrino magnetic moment	Phys. Lett. B	704	108-112
*	Zenitani, S. , Hesse, M., Klimas, A., Black, C., Kuznetsov, M.:	2011	The inner structure of collisionless magnetic reconnection: The electron-frame dissipation measure and Hall fields	Physics of Plasmas	18	122108
	Zhao, B., Li, Z.-Y., Nakamura, F. , Krasnopolsky, R., Shang, H.:	2011	Magnetic Flux Expulsion in Star Formation	ApJ	742	10(8pp)