

業績リスト (2013.11.01)

Refereed Papers on Science

- [1] “Discovery of the recombining plasma in the south of the Galactic center; a relic of the past Galactic center activity?”, S. Nakashima, M. Nobukawa, H. Uchida, T. Tanaka, T. G. Tsuru and K. Koyama 2013, *Astrophys. J.*, **773**, 20 (8pp)
- [2] “Large-Field CO(J = 1 0) Observations of the Starburst Galaxy M 82”, Salak, Dragan; Nakai, Naomasa; Miyamoto, Yusuke; Yamauchi, Aya; Tsuru, Takeshi G. 2013, *Publ. Astron. Soc. Japan.*, **65**, 66S (15pp)
- [3] “X-Ray Echo from the Sagittarius C Complex and 500-year Activity History of Sagittarius A*”, Ryu, Syukyo Gando; Nobukawa, Masayoshi; Nakashima, Shinya; Tsuru, Takeshi Go; Koyama, Katsuji; Uchiyama, Hideki; 2013, *Publ. Astron. Soc. Japan.*, **65**, 33 (9 pages)
- [4] “The K-shell Line Distribution of Heavy Elements along the Galactic Plane Observed with Suzaku”, Uchiyama, Hideki; Nobukawa, Masayoshi; Tsuru, Takeshi Go; Koyama, Katsuji; 2013, *Publ. Astron. Soc. Japan.*, **65**, 19 (11 pages)
- [5] “Interacting Cosmic Rays with Molecular Clouds: A Bremsstrahlung Origin of Diffuse High-energy Emission from the Inner $2^\circ \times 1^\circ$ of the Galactic Center”, Yusef-Zadeh, F.; Hewitt, J. W.; Wardle, M.; Tatischeff, V.; Roberts, D. A.; Cotton, W.; Uchiyama, H.; Nobukawa, M.; Tsuru, T. G.; Heinke, C.; Royster, M.; 2013, *Astrophys. J.*, **762**, 33 (22pp)
- [6] “Recombining Plasma and Hard X-ray Filament in the Mixed-Morphology Supernova Remnant W44”, Uchida, Hiroyuki; Koyama, Katsuji; Yamaguchi, Hiroya; Sawada, Makoto; Ohnishi, Takao; Tsuru, Takeshi Go; Tanaka, Takaaki; Yoshiike, Satoshi; Fuku, Yasuo 2012, *Publ. Astron. Soc. Japan.*, **64**, 141 (9 pages)
- [7] “Suzaku Observation of the Supergiant Fast X-Ray Transient AX J1841.0-0536”, Kawabata Nobukawa, Kumiko; Nobukawa, Masayoshi; Tsuru, Takeshi Go; Koyama, Katsuji 2012, *Publ. Astron. Soc. Japan.*, **64**, 99 (8 pages)
- [8] “Spatial and Temporal Variations of the Diffuse Iron 6.4 keV Line in the Galactic Center Region”, Chernyshov D.; Dogiel V.; Nobukawa, M.; Tsuru, T. G.; Koyama, K.; Uchiyama, H.; Matsumoto, H. 2012, *Publ. Astron. Soc. Japan.*, **64**, 14 (8 pages)
- [9] “Suzaku Metal Abundance Patterns in the Outflow Region of M82 and the Importance of Charge Exchange”, Konami, Saori; Matsushita, Kyoko; Tsuru, Takeshi Go; Gandhi, Poshak; Tamagawa, Toru, 2011, *Publ. Astron. Soc. Japan.*, **63**, pp.S913–S924
- [10] “Global Distribution of Fe K alpha Lines in the Galactic Center Region Observed with the Suzaku Satellite”, Uchiyama, H.; Nobukawa, M.; Tsuru, T. G.; Koyama, K.; Matsumoto, H. 2011, *Publ. Astron. Soc. Japan.*, **63**, pp.S903–S9114
- [11] “Suzaku Discovery of Twin Thermal Plasma from the Tornado Nebula”, Sawada M.; Tsuru, T.G.; Koyama, K.; Oka, T. 2011, *Publ. Astron. Soc. Japan.*, **63**, pp.S849–S855
- [12] “New Evidence for High Activity of the Supermassive Black Hole in our Galaxy”, Nobukawa M.; Ryu S. G.; Tsuru, T. G.; Koyama, K., 2011, *Astrophys. J. Letters*, **739**, pp.L52–56
- [13] “X-Ray Spectrum of a Peculiar Supernova Remnant G359.1-0.5”, Ohnishi, T.; Koyama, K.; Tsuru, T. G.; Masai, K.; Yamaguchi, H.; Ozawa, M. 2011, *Publ. Astron. Soc. Japan.*, **63**, pp.527–533

- [14] “Suzaku observations of the Great Annihilator and the surrounding diffuse emissions”, Nakashima, S.; Nobukawa, M.; Tsuru, T. G.; Koyama, K.; Uchiyama, H. 2010, *Publ. Astron. Soc. Japan.*, **62**, pp.971–979
- [15] “Discovery of K-Shell Emission Lines of Neutral Atoms in the Galactic Center Region”, Nobukawa, Masayoshi; Koyama, Katsuji; Tsuru, Takeshi Go; Ryu, Syukyo G.; Tatischeff, Vincent 2010, *Publ. Astron. Soc. Japan.*, **62**, pp.423–429
- [16] “An X-Ray Face-On View of the Sagittarius B Molecular Clouds Observed with Suzaku”, Ryu, Syukyo G.; Koyama, Katsuji; Nobukawa, Masayoshi; Fukuoka, Ryosuke; Tsuru, Takeshi Go 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.751–761
- [17] “A Super Bubble Candidate in the Galactic Center and a Local Enhancement G359.77-0.09”, Mori, Hideyuki; Hyodo, Yoshiaki; Tsuru, Takeshi Go; Nobukawa, Masayoshi; Koyama, Katsuji 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.687–695
- [18] “Suzaku Observation Adjacent to the South End of the Radio Arc”, Fukuoka, Ryosuke; Koyama, Katsuji; Ryu, Syukyo G.; Tsuru, Takeshi Go 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.593–600
- [19] “X-ray emission from the Sagittarius D region”, Nobukawa, Masayoshi; Sawada, Makoto; Matsumoto, Hironori; Tsuru, Takeshi Go; Koyama, Katsuji 2009, *Adv. Space Res.*, **43**, pp.1045–1048
- [20] “Molecular Superbubbles and Outflows from the Starburst Galaxy NGC 2146”, Tsai, An-Li; Matsushita, Satoki; Nakanishi, Kouichiro; Kohno, Kotaro; Kawabe, Ryohei; Inui, Tatsuya; Matsumoto, Hironori; Tsuru, Takeshi G.; Peck, Alison B.; Tarchi, Andrea 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.237–250
- [21] “Suzaku Observations of M 82 X-1 : Detection of a Curved Hard X-Ray Spectrum”, Miyawaki, Ryohei; Makishima, Kazuo; Yamada, Shin’ya; Gandhi, Poshak; Mizuno, Tsunefumi; Kubota, Aya; Tsuru, Takeshi G.; Matsumoto, Hironori 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S263–S278
- [22] “Spatial Distribution of the Galactic Center Diffuse X-Rays and the Spectra of the Brightest 6.4keV Clumps”, Koyama, Katsuji; Takikawa, Yojiro; Hyodo, Yoshiaki; Inui, Tatsuya; Nobukawa, Masayoshi; Matsumoto, Hironori; Tsuru, Takeshi Go 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S255–S262
- [23] “Time Variability of the Neutral Iron Lines from the Sagittarius B2 Region and Its Implication of a Past Outburst of Sagittarius A”, Inui, Tatsuya; Koyama, Katsuji; Matsumoto, Hironori; Tsuru, Takeshi Go 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S241–S253
- [24] “X-Ray Reflection Nebulae with Large Equivalent Widths of the Neutral Iron K_{α} Line in the Sagittarius C Region”, Nakajima, Hiroshi; Tsuru, Takeshi Go; Nobukawa, Masayoshi; Matsumoto, Hironori; Koyama, Katsuji; Murakami, Hiroshi; Senda, Atsushi; Yamauchi, Shigeo 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S233–S240
- [25] “A New Supernova Remnant Candidate and an Associated Outflow in the Sagittarius C Region”, Tsuru, T. G.; Nobukawa, M.; Nakajima, H.; Matsumoto, H.; Koyama, K.; Yamauchi, S 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S219–S223
- [26] “X-Ray Observations of the Sagittarius D HII Region toward the Galactic Center with Suzaku”, Sawada, Makoto; Tsujimoto, Masahiro; Koyama, Katsuji; Law, Casey J.; Tsuru, Takeshi Go; Hyodo, Yoshiaki 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S209–S218
- [27] “Suzaku Observation of HESS J1825-137: Discovery of Largely-Extended X-Rays from PSR J1826-1334”, Uchiyama, Hideki; Matsumoto, Hironori; Tsuru, Takeshi Go; Koyama, Katsuji; Bamba, Aya 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S189–S196

- [28] “Discoveries of 3 K-Shell Lines of Iron and a Coherent Pulsation of 593s from SAX J1748.2-2808”, Nobukawa, Masayoshi; Koyama, Katsuji; Matsumoto, Hironori; Tsuru, Takeshi Go 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S93–S98
- [29] “Detailed hard X-ray measurements of the nuclear emission from the Seyfert 2 galaxy NGC 4388 with Suzaku”, Hirohisa Shirai, Yasushi Fukazawa, Mahito Sasada, Masanori Ohno, Daisuke Yonetoku, Satoshi Yokota, Ryuichi Fujimoto, Toshio Murakami, Yuichi Terashima, Hisamitsu Awaki, Shinya Ikeda, Midori Ozawa, Takeshi G. Tsuru, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S263–S276
- [30] “Suzaku Detection of Extended/Diffuse Hard X-Ray Emission from the Galactic Center”, Takayuki Yuasa, Ken-ichi Tamura, Kazuhiro Nakazawa, Motohide Kokubun, Kazuo Makishima, Aya Bamba, Yoshitomo Maeda, Tadayuki Takahashi, Ken Ebisawa, Atsushi Senda, Yoshiaki Hyodo, Takeshi Go Tsuru, Katsuji Koyama, Shigeo Yamauchi, Hiromitsu Takahashi, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S207–S222
- [31] “A Time Variable X-Ray Echo: Indications of the Past Flare of the Galactic Center Black Hole”, Katsuji Koyama, Tatsuya Inui, Hironori Matsumoto, Takeshi Go Tsuru, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S201–S206
- [32] “Suzaku Spectroscopy of an X-Ray Reflection Nebula and a New Supernova Remnant Candidate in the Sgr B1 Region”, Masayoshi Nobukawa, Takeshi Go Tsuru, Yojiro Takikawa, Yoshiaki Hyodo, Tatsuya Inui, Hiroshi Nakajima, Hironori Matsumoto and Katsuji Koyama, Hiroshi Murakami, Shigeo Yamauchi, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S191–S200
- [33] “Suzaku Observation of G359.79-0.26, a New Supernova Remnant Candidate in the Galactic Center”, Mori, H.; Tsuru, T. G.; Hyodo, Y.; Koyama, K.; Senda, A., 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S183–S190
- [34] “Discovery of X-Ray emission from the Dark Particle Accelerator HESS J1614-518 with the Suzaku Satellite”, Hironori Matsumoto, Hideki Uchiyama, Makoto Sawada, Takeshi G. Tsuru, Katsuji Koyama, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S163–S172
- [35] “X-Ray Spectroscopy of SN1006 with Suzaku”, Hiroya Yamaguchi, Katsuji Koyama, Satoru Katsuda, Hiroshi Nakajima, John P. Hughes, Aya Bamba, Junko S. Hiraga, Koji Mori, Masanobu Ozaki, Takeshi Go Tsuru, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S141–S152
- [36] “Suzaku Observation of the Metallicity Distribution in the Intracluster Medium of the Fornax Cluster”, Matsushita, Kyoko; Fukazawa, Yasushi; Hughes, John P.; Kitaguchi, Takao; Makishima, Kazuo; Nakazawa, Kazuhiro; Ohashi, Takaya; Ota, Naomi; Tamura, Takayuki; Tozuka, Miyako; Tsuru, Takeshi Go; Urata, Yuji; Yamasaki, Noriko Y., 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.327-338
- [37] “X-ray Spectral Study of the Extended Emission, ‘the Cap’, Located 11.6 kpc above the Disk of M82”, Tsuru, Takeshi Go; Ozawa, Midori; Hyodo, Yoshiaki; Matsumoto, Hironori; Koyama, Katsuji; Awaki, Hisamitsu; Fujimoto, Ryuichi; Griffiths, Richard; Kilbourne, Caroline; Matsushita, Kyoko; Mitsuda, Kazuhisa; Ptak, Andrew; Ranalli, Piero; Yamasaki, Noriko Y., 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.269-282
- [38] “Iron and Nickel Line Diagnostics for the Galactic Center Diffuse Emission”, Koyama, Katsuji; Hyodo, Yoshiaki; Inui, Tatsuya; Nakajima, Hiroshi; Matsumoto, Hironori; Tsuru, Takeshi Go; Takahashi, Tadayuki; Maeda, Yoshitomo; Yamazaki, Noriko Y.; Murakami, Hiroshi; Yamauchi, Shigeo; Tsuboi, Yohko; Senda, Atsushi; Kataoka, Jun; Takahashi, Hiromitsu; Holt, Stephen S.; Brown, Gregory V., 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.245-255

- [39] “X-Ray Spectrum of Sgr A East”, Koyama, Katsuji; Uchiyama, Hideki; Hyodo, Yoshiaki; Matsumoto, Hironori; Tsuru, Takeshi Go; Ozaki, Masanobu; Maeda, Yoshitomo; Murakami, Hiroshi 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.237-243
- [40] “Discoveries of Diffuse Iron Line Sources from the Sgr B Region”, Koyama, Katsuji; Inui, Tatsuya; Hyodo, Yoshiaki; Matsumoto, Hironori; Tsuru, Takeshi Go; Maeda, Yoshitomo; Murakami, Hiroshi; Yamauchi, Shigeo; Kissel, Steven E.; Chan, Kai-Wing; Soong, Yang 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.221-227
- [41] “Suzaku Observations of HESS J1616-508: Evidence for a Dark Particle Accelerator”, Matsumoto, Hironori; Ueno, Masaru; Bamba, Aya; Hyodo, Yoshiaki; Mori, Hideyuki; Uchiyama, Hideki; Tsuru, Takeshi Go; Koyama, Katsuji; Kataoka, Jun; Katagiri, Hideaki; Takahashi, Tadayuki; Hiraga, Junko; Yamauchi, Shigeo; Hughes, John P.; Senda, Atsushi; Kokubun, Motohide; Kohmura, Takayoshi; Porter, Frederick S. 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.199-208
- [42] “Chandra Observation of the Starburst Galaxy NGC 2146”, Tatsuya Inui, Hironori Matsumoto, Takeshi Go Tsuru, Katsuji Koyama, Satoki Matsushita, Alison B. Peck, Andrea Tarchi, 2005, *Publ. Astron. Soc. Japan.*, **57**, 135 – 145
- [43] “Starburst at the Expanding Molecular Superbubble in M82: Self-induced Starburst at the Inner Edge of the Superbubble”, Satoki Matsushita, Ryohei Kawabe, Kotaro Kohno, Hironori Matsumoto, Takeshi G. Tsuru, Baltasar Vila-Vilar, 2005, *Astrophys. J.*, **618**, 712 – 722.
- [44] “Galactic Gamma-Ray Halo of the Nearby Starburst Galaxy NGC 253”, C. Itoh, R. Enomoto, S. Yanagita, T. Yoshida, T. G. Tsuru, 2003, *Astrophys. J. Letters*, **584**, L65 – L68
- [45] “Peculiar Chemical Abundances in the Starburst Galaxy M82 and Hypernova Nucleosynthesis”, Hideyuki Umeda, Ken’ichi Nomoto, Takeshi Go Tsuru, Hironori Matsumoto, 2002, *Astrophys. J.*, **578**, 855 – 861
- [46] “Missing Link Found? The “Runaway” Path to Supermassive Black Holes”, Toshikazu Ebisuzaki, Junichiro Makino, Takeshi Go Tsuru, Yoko Funato, Simon Portegies Zwart, Piet Hut, Steve McMillan, Satoki Matsushita, Hironori Matsumoto, Ryohei Kawabe, 2001, *Astrophys. J. Letters*, **562**, L19 – L22
- [47] “ASCA observations of massive medium-distant clusters of galaxies. II.”, H. Matsumoto, M. Pierre, T. G. Tsuru, D. S. Davis, 2001, *Astron. Astrophys.*, **374**, 28 – 35
- [48] “Discovery of a Luminous Variable Source at the Off-Center position of M82”, H. Matsumoto, T.G. Tsuru, K. Koyama, H. Awaki, C.R. Canizares, N. Kawai, S. Matsushita, A. Prestwich, M. Ward, A.L. Zezas and R. Kawabe, 2001, *Astrophys. J. Letters*, **547**, L25–L28
- [49] “Formation of a Massive Black Hole at the Center of the Superbubble in M82”, Satoki Matsushita, Ryohei Kawabe, Hironori Matsumoto, Takeshi G. Tsuru, Kotaro Kohno, Koh-Ichiro Morita, Sachiko K. Okumura, Baltasar Vila-Vilaró, 2000, *Astrophys. J. Letters*, **545**, L107–L111
- [50] “Formation of Intermediate-Mass Black Holes in Circumnuclear Regions of Galaxies”, Yoshiaki Taniguchi, Yasuhiro Shioya, Takeshi G. Tsuru, Satoru Ikeuchi, 2000, *Publ. Astron. Soc. Japan.*, **52**, 533-537
- [51] “Upper Limits of Iron Line Flux in X-Ray Afterglow of Two Gamma-Ray Bursts with ASCA”, Daisuke Yonetoku, Toshio Murakami, Yoshihiro Ueda, Manabu Ishida, Atsumasa Yoshida, Nobuyuki Kawai, Yuji Shirasaki, Takeshi Go Tsuru, Shin’ichiro Uno, 2000, *Publ. Astron. Soc. Japan.*, **52**, 509–513

- [52] “ASCA Mapping Observation of the Virgo Cluster of Galaxies”, H. Matsumoto, K. Koyama, H. Awaki, T. Tsuru, T. Ohashi, K. Kikuchi, 2000, *Adv. Space Res.*, **25**, 599
- [53] “Results from the ASCA Large Sky Survey – Nature of Faint X-Ray Source and the Implications for the Origin of the CXB”, Y. Ueda, M. Akiyama, G. Hasinger, H. Inoue, Y. Ishisaki, K. Makishima, Y. Ogasaka, K. Ohta, M. Sakano, T. Takahashi, T. Tsuru, W. Voges, T. Yamada, 2000, *Adv. Space Res.*, **25**, 839
- [54] “The Hardest X-Ray Source Discovered in the ASCA Large Sky Survey : Implications to the Cosmic X-Ray Background”, M. Sakano, K. Koyama, T. Tsuru, H. Awaki, Y. Ueda, T. Takahashi, M. Akiyama, K. Ohta, T. Yamada, 2000, *Adv. Space Res.*, **25**, 849
- [55] “Optical Identification of the ASCA Large Sky Survey”, Masayuki Akiyama, Kouji Ohta, Toru Yamada, Nobunari Kashikawa, Masafumi Yagi, Wataru Kawasaki, Masaaki Sakano, Takeshi Tsuru, Yoshihiro Ueda, Tadayuki Takahashi, Ingo Lehmann, Günther Hasinger, Wolfgang Voges, 2000, *Astrophys. J.*, **532**, 700–727
- [56] “Gas, iron, and gravitational mass in galaxy clusters : the general lack of cluster evolution at $z < 1.0$ ”, H. Matsumoto, T. Tsuru, Y. Fukazawa, M. Hattori, D.S. Davis, 2000, *Publ. Astron. Soc. Japan.*, **52**, 153–160
- [57] “X-ray evidence of an AGN in the starburst galaxy M82”, T.G. Tsuru, H. Matsumoto 1999, *Astron. Nachr.*, **320**, 306
- [58] “ASCA observations of massive medium-distant clusters of galaxies”, H. Matsumoto, T.G. Tsuru, M. Pierre, L. Lemonon, 1999, *Astron. Nachr.*, **320**, 292
- [59] “Nature of hard X-ray sources from optical identifications of the ASCA Large Sky Survey”, M. Akiyama, K. Ohta, T. Yamada, Y. Ueda, T. Takahashi, M. Sakano, T. Tsuru, I. Lehmann, G. Hasinger, 1999, *Astron. Nachr.*, **320**, 255
- [60] “Merging Young Clusters in the Shapley Supercluster”, Hitoshi Hanami, Takeshi Tsuru, Kazuhiro Shimasaku, Shigeo Yamauchi, Yasushi Ikebe, Katsuji Koyama, 1999, *Astrophys. J.*, **521**, 90–98
- [61] “X-ray evidence of an AGN in M 82.”, H. Matsumoto, T.G. Tsuru 1999, *Publ. Astron. Soc. Japan.*, **51**, 321–331
- [62] “LOG N-LOG S Relations and Spectral Properties of Sources from the ASCA Large Sky Survey: Their Implications for the Origin of the Cosmic X-Ray Background (CXB)”, Yoshihiro Ueda, Tadayuki Takahashi, Hajime Inoue, Takeshi Tsuru, Masaaki Sakano, Yoshitaka Ishisaki, Yasushi Ogasaka, Kazuo Makishima, Toru Yamada, Masayuki Akiyama, Kouji Ohta, 1999, *Astrophys. J.*, **518**, 656–671
- [63] “ASCA observations of massive medium-distant clusters of galaxies. I. A 1300 and A 1732”, M. Pierre, H. Matsumoto, T. Tsuru, H. Ebeling, R. Hunstead, 1999, *Astron. Astrophys.*, **136**, 173–177
- [64] “Optical follow-up observations of the ASCA Large Sky Survey”, M. Akiyama, K. Ohta, T. Yamada, Y. Ueda, T. Takahashi, M. Sakano, T. Tsuru, R. Boyle, 1998, *Astron. Nachr.*, **319**, 63
- [65] “Sky surveys with ASCA – Large Sky Survey”, Y. Ueda, T. Takahashi, H. Inoue, T. Tsuru, M. Sakano, K. Ohta, Y. Ishisaki, Y. Ogasaka, K. Makishima, T. Yamada, 1998, *Astron. Nachr.*, **319**, 47
- [66] “Discovery of a Compact X-Ray Source inside the Cygnus Loop”, Emi Miyata, Hiroshi Tsunemi, Ken’ichi Torii, Kiyoshi Hashimoto, Takeshi Tsuru, Katsuji Koyama, Kazuya Ayani, Kouji Ohta, Michitoshi Yoshida 1998, *Publ. Astron. Soc. Japan.*, **50**, 475–481

- [67] “The Hardest X-Ray Source in the ASCA Large Sky Survey: Discovery of a New Type 2 Seyfert”, Masaaki Sakano, Katsuji Koyama, Takeshi Tsuru, Hisamitsu Awaki, Yoshihiro Ueda, Tadayuki Takahashi, Masayuki Akiyama, Kouji Ohta, Toru Yamada, 1998, *Astrophys. J.*, **505**, 129–133
- [68] “Discovery of X-Ray Emission from the Distant Lensing Cluster of Galaxies Cl 2236-04 at $z = 0.552$ ”, Makoto Hattori, Hideyuki Matuzawa, Kohji Morikawa, Jean-Paul Kneib, Kazuyuki Yamashita, Kazuya Watanabe, Hans Böhringer, Takeshi G. Tsuru, 1998, *Astrophys. J.*, **503**, 593–598
- [69] “Optical Identification of the Hardest X-Ray Source in the ASCA Large-Sky Survey”, Masayuki Akiyama, Kouji Ohta, Toru Yamada, Michael Eracleous, Jules P. Halpern, Nobunari Kashikawa, Masfumi Yagi, Wataru Kawasaki, Masaaki Sakano, Takeshi Tsuru, Yoshihiro Ueda, Tadayuki Takahashi, 1998, *Astrophys. J.*, **500**, 173–180
- [70] “A population of faint galaxies that contribute to the cosmic X-ray background”, Y. Ueda, T. Takahashi, H. Inoue, T. Tsuru, M. Sakano, Y. Ishisaki, Y. Ogasaka, K. Makishima, T. Yamada, K. Ohta, 1998, *Nature*, **391**, 866–868
- [71] “Wide-Band X-Ray Spectra and Images of the Starburst Galaxy M82”, Takeshi Go Tsuru, Hisamitsu Awaki, Katsuji Koyama, Andy Ptak, 1997, *Publ. Astron. Soc. Japan.*, **49**, 619–629
- [72] “X-Ray Imaging Spectroscopy of Stephan’s Quintet and Seyfert 2 Galaxy NGC 7319”, Hisamitsu Awaki, Katsuji Koyama, Hironori Matsumoto, Hiroshi Tomida, Takeshi Tsuru, Shiro Ueno, 1997, *Publ. Astron. Soc. Japan.*, **49**, 445–452
- [73] “X-Ray Properties of Early-Type Galaxies as Observed with ASCA”, H. Matsumoto, K. Koyama, H. Awaki, T. Tsuru, M. Loewenstein, K. Matsushita, 1997, *Astrophys. J.*, **482**, 133–142
- [74] “The Complex X-Ray Spectra of M82 and NGC 253”, A. Ptak, P. Serlemitsos, T. Yaqoob, R. Mushotzky, T. Tsuru, 1997, *Astron. J.*, **113**, 1286–1295
- [75] “A dark cluster of galaxies at redshift $z = 1$.”, M. Hattori, Y. Ikebe, I. Asaoka, T. Takeshima, H. Böhringer, T. Mihara, D. M. Neumann, S. Schindler, T. Tsuru, T. Tamura, 1997, *Nature*, **388**, 146–148
- [76] “ASCA Observation of NGC 1808”, Hisamitsu Awaki, Shiro Ueno, Katsuji Koyama, Takeshi Tsuru, Kazushi Iwasawa, 1996, *Publ. Astron. Soc. Japan.*, **48**, 409–416
- [77] “Discovery of an Abundance Gradient in the Central Region of the Virgo Cluster”, Hironori Matsumoto, Katsuji Koyama, Hisamitsu Awaki, Hiroshi Tomida, Takeshi Tsuru, Richard Mushotzky, Isamu Hatsukade, 1996, *Publ. Astron. Soc. Japan.*, **48**, 201–210
- [78] “The X-Ray Structure of A399 and A401: A Pre-Merging Cluster Pair”, Yutaka Fujita, Katsuji Koyama, Takeshi Tsuru, Hironori Matsumoto, 1996, *Publ. Astron. Soc. Japan.*, **48**, 191–200
- [79] “Detections of hard X-ray emissions from bright early-type galaxies with ASCA”, K. Matsuhita, K. Makishima, H. Awaki, C. R. Canizares, A. C. Fabian, Y. Fukazawa, M. Loewenstein, H. Matsumoto, T. Mihara, R. F. Mushotzky, T. Ohashi, G. R. Ricker, P. J. Serlemitsos, T. Tsuru, Y. Tsusaka, T. Yamazaki, 1994, *Astrophys. J. Letters*, **436**, L41–L45
- [80] “ASCA observations of the Wolf-Rayet binary HD 193793”, Katsuji Koyama, Yoshitomo Maeda, Takeshi Tsuru, Fumiaki Nagase, Stephen Skinner, 1994, *Publ. Astron. Soc. Japan Letters*, **46**, L93–L96

- [81] “ASCA observation of three bright early-type galaxies: NGC 4472, NGC 4406, and NGC 4636”, Hisamitsu Awaki, Richard Mushotzky, Takeshi Tsuru, Andrew C. Favian, Yasushi Fukazawa, Michael Loewenstein, Kazuo Makishima, Hironori Matsumoto, Kyoko Matsushita, Tatehiro Mihara, Takaya Ohashi, George R. Ricker, Peter J. Serlemitsos, Yoshiyuki Tsusaka, Takashi Yamazaki, 1994, *Publ. Astron. Soc. Japan Letters*, **46**, L65–L70
- [82] “Multifrequency observations of AB Doradus. X-ray flaring and rotational modulation of a young star”, O. Vilhu, T. Tsuru, A. Collier Cameron, E. Budding, T. Banks, B. Slee, P. Ehrenfreund, B. H. Foing, 1993, *Astron. Astrophys.*, **278**, 467–477
- [83] “X-ray evidence for Seyfert activity buried in the infrared galaxy NGC 4945”, K. Iwasawa, K. Koyama, H. Awaki, H. Kunieda, K. Makishima, T. Tsuru, T. Ohashi, N. Nakai, 1993, *Astrophys. J.*, **409**, 155–161
- [84] “Hard X-rays from the contact binary VW Cephei”, T. Tsuru, K. Makishima, T. Ohashi, T. Sakao, J. P. Pye, O. R. Williams, M. A. Barstow, S. Takano, 1992, *Monthly Notices Roy. Astron. Soc.*, **255**, 192–196
- [85] “X-ray study of NGC 1399 in the Fornax cluster of galaxies”, Y. Ikebe, T. Ohashi, K. Makishima, T. Tsuru, G. Fabbiano, D.-W. Kim, G. Trinchieri, I. Hatsukade, K. Yamashita, H. Kondo, 1992, *Astrophys. J. Letters*, **384**, L5–L8
- [86] “Simultaneous detection of a large flare in the X-ray and optical regions on the RS CVn-type star II Peg”, J. G. Doyle, B. J. Kellett, P. B. Byrne, S. Avgoloupis, L. N. Mavridis, J. H. Seiradakis, G. E. Bromage, T. Tsuru, K. Makishima, I. M. McHardy, 1991, *Monthly Notices Roy. Astron. Soc.*, **248**, 503–507
- [87] “X-ray observations of NGC 253 and M83 with Ginga”, T. Ohashi, K. Makishima, T. Tsuru, S. Takano, K. Koyama, G. C. Stewart, 1990, *Astrophys. J.*, **365**, 180–185
- [88] “Discovery of a prominent cyclotron absorption feature from the transient X-ray pulsar X0331+53”, K. Makishima, T. Mihara, M. Ishida, T. Ohashi, T. Sakao, M. Tashiro, T. Tsuru, T. Kii, F. Makino, T. Murakami, F. Nagase, Y. Tanaka, H. Kunieda, Y. Tawara, S. Kitamoto, S. Miyamoto, A. Yoshida, M. J. L. Turner, 1990, *Astrophys. J. Letters*, **365**, L59–L62
- [89] “A very energetic X-ray burst from 4U 2129 + 11 in M15”, Jan van Paradijs, Tadayasu Dotani, Yasuo Tanaka, Takeshi Tsuru, 1990, *Publ. Astron. Soc. Japan.*, **42**, 633-660
- [90] “Evidence of a largely extended X-ray emission around M82”, Takeshi Tsuru, Takaya Ohashi, Kazuo Makishima, Tatehiro Mihara, Hideji Kondo, 1990, *Publ. Astron. Soc. Japan Letters*, **42**, L75–L82
- [91] “A giant X-ray/optical flare on II Peg”, P. B. Byrne, J. G. Doyle, T. Tsuru, S. Avgoloupis, L. N. Mavridis, J. H. Seiridakis, D. W. Kilkenney, J. D. Laing, F. Marang, 1990, *Irish Astronomical Journal* **19**, p.150
- [92] “X-ray and radio observations of flares from the RS Canum Venaticorum system UX Arietis”, T. Tsuru, K. Makishima, T. Ohashi, H. Inoue, K. Koyama, M. J. L. Turner, M. A. Barstow, I. M. McHardy, J. P. Pye, H. Tsunemi, S. Kitamoto, A. R. Taylor, R. F. Nelson, 1989, *Publ. Astron. Soc. Japan.*, **41**, 679–695

Refereed Papers on Instruments

- [93] “Design and Evaluation of a SOI Pixel Sensor for X-ray Trigger-driven Readout”, Takeda, Ayaki; Arai, Yasuo; Ryu, Syukyo Gando; Nakashima, Shinya; Tsuru, Takeshi Go; Imamura, Toshifumi; Ohmoto, Takafumi; Iwata, Atsushi; 2013, *IEEE Trans. Nucl. Sci.*, **60**, 586-591
- [94] “Development and characterization of the latest X-ray SOI pixel sensor for a future astronomical mission”, Nakashima, Shinya; Ryu, Syukyo Gando; Tanaka, Takaaki; Tsuru, Takeshi Go; Takeda, Ayaki; Arai, Yasuo; Imamura, Toshifumi; Ohmoto, Takafumi; Iwata, Atsushi 2013, *Nucl. Instr. and Meth. A*, **731**, 74-78
- [95] “Tests With Soft X-rays of an Improved Monolithic SOI Active Pixel Sensor”, Ryu, Syukyo Gando; Tsuru, Takeshi Go; Prigozhin, Gregory; Kissel, Steve; Bautz, Marshall; LaMarr, Beverly; Nakashima, Shinya; Foster, Richard F.; Takeda, Ayaki; Arai, Yasuo; Imamura, Toshifumi; Ohmoto, Takafumi; Iwata, Atsushi 2013, *IEEE Trans. Nucl. Sci.*, **60**, 465-469
- [96] “Progress in Development of Monolithic Active Pixel Detector for X-ray Astronomy with SOI CMOS Technology”, Nakashima, Shinya; Ryu, Syukyo Gando; Tsuru, Takeshi Go; Takeda, Ayaki; Arai, Yasuo; Miyoshi, Toshinobu; Ichimiya, Ryo; Ikemoto, Yukiko; Imamura, Toshifumi; Ohmoto, Takafumi; Iwata, Atsushi; 2012, *Physics Procedia*, **37**, pp.1373-1380
- [97] “ORIGIN: metal creation and evolution from the cosmic dawn”, den Herder, Jan-Willem; Piro, Luigi; Ohashi, Takaya; Kouveliotou, Chryssa; Hartmann, Dieter H.; Kaastra, Jelle S.; Amati, L.; Andersen, M. I.; Arnaud, M.; Attéia, J.-L.; Bandler, S.; Barbera, M.; Barcons, X.; Barthelmy, S.; Basa, S.; Basso, S.; Boer, M.; Branchini, E.; Branduardi-Raymont, G.; Borgani, S.; Boyarsky, A.; Brunetti, G.; Budtz-Jorgensen, C.; Burrows, D.; Butler, N.; Campana, S.; Caroli, E.; Ceballos, M.; Christensen, F.; Churazov, E.; Comastri, A.; Colasanti, L.; Cole, R.; Content, R.; Corsi, A.; Costantini, E.; Conconi, P.; Cusumano, G.; de Plaa, J.; de Rosa, A.; Del Santo, M.; di Cosimo, S.; de Pasquale, M.; Doriese, R.; Etori, S.; Evans, P.; Ezoe, Y.; Ferrari, L.; Finger, H.; Figueroa-Feliciano, T.; Friedrich, P.; Fujimoto, R.; Furuzawa, A.; Fynbo, J.; Gatti, F.; Galeazzi, M.; Gehrels, N.; Gendre, B.; Ghirlanda, G.; Ghisellini, G.; Gilfanov, M.; Giommi, P.; Girardi, M.; Grindlay, J.; Cocchi, M.; Godet, O.; Guedel, M.; Haardt, F.; den Hartog, R.; Hepburn, I.; Hermsen, W.; Hjorth, J.; Hoekstra, H.; Holland, A.; Hornstrup, A.; van der Horst, A.; Hoshino, A.; in’t Zand, J.; Irwin, K.; Ishisaki, Y.; Jonker, P.; Kitayama, T.; Kawahara, H.; Kawai, N.; Kelley, R.; Kilbourne, C.; de Korte, P.; Kusenko, A.; Kuvvetli, I.; Labanti, M.; Macculi, C.; Maiolino, R.; Hesse, M. Mas; Matsushita, K.; Mazzotta, P.; McCammon, D.; Méndez, M.; Mignani, R.; Mineo, T.; Mitsuda, K.; Mushotzky, R.; Molendi, S.; Moscardini, L.; Natalucci, L.; Nicastro, F.; O’Brien, P.; Osborne, J.; Paerels, F.; Page, M.; Paltani, S.; Pedersen, K.; Perinati, E.; Ponman, T.; Pointecouteau, E.; Predehl, P.; Porter, S.; Rasmussen, A.; Rauw, G.; R?ttgering, H.; Roncarelli, M.; Rosati, P.; Quadrini, E.; Ruchayskiy, O.; Salvaterra, R.; Sasaki, S.; Sato, K.; Savaglio, S.; Schaye, J.; Sciortino, S.; Shaposhnikov, M.; Sharples, R.; Shinozaki, K.; Spiga, D.; Sunyaev, R.; Suto, Y.; Takei, Y.; Tanvir, N.; Tashiro, M.; Tamura, T.; Tawara, Y.; Troja, E.; Tsujimoto, M.; Tsuru, T.; Ubertini, P.; Ullom, J.; Ursino, E.; Verbunt, F.; van de Voort, F.; Viel, M.; Wachter, S.; Watson, D.; Weisskopf, M.; Werner, N.; White, N.; Willingale, R.; Wijers, R.; Yamasaki, N.; Yoshikawa, K.; Zane, S. 2012, *Experimental Astronomy*, **34**, pp.519-549
- [98] “First Performance Evaluation of an X-Ray SOI Pixel Sensor for Imaging Spectroscopy and Intra-Pixel Trigger”, Syukyo Gando Ryu, Takeshi Go Tsuru, Shinya Nakashima, Ayaki Takeda, Yasuo Arai, Toshinobu Miyoshi, Ryo Ichimiya, Yukiko Ikemoto, Hironori Matsumoto, Toshifumi Imamura, Takafumi Ohmoto, Atsushi Iwata, 2011, *IEEE Trans. Nucl. Sci.*, **58**, pp.2528-2536

- [99] “Development of SOI pixel process technology”, Y.Arai, T.Miyoshi, Y.Unno, T.Tsuboyama, S.Terada, Y.Ikegami, R.Ichimiya, T.Kohriki, K.Tauchi, Y.Ikemoto, Y.Fujita, T.Uchida, K.Hara, H.Miyake, M.Kochiyama, T.Sega, K.Hanagaki, M.Hirose, J.Uchida, Y.Onuki, Y.Horii, H.Yamamoto, T.Tsuru, H.Matsumoto, S.G.Ryu, R.Takashima, A.Takeda, H.Ikeda, D.Kobayashi, T.Wadag, H.Nagata, T.Hatsui, T.Kudo, A.Taketani, T.Kameshima, T.Hirono, M.Yabashi, Y.Furukawa, M.Battaglia, P.Denes, C.Vu, D.Contarato, P.Giubilato, T.S.Kim, M.Ohno, K.Fukuda, I.Kurachi, M.Okihara, N.Kuriyama, M.Motoyoshim, 2011, *Nucl. Instr. and Meth. A*, **636**, pp.S31-S36.
- [100] “Detection of neutron-induced events and neutron/ γ -ray discrimination with an imaging capability of a P-channel X-ray CCD”, Makoto Sawada, Hironori Matsumoto, Takeshi Go Tsuru, Kentaro Miuchi, Shigeto Kabuki, 2011, *Nucl. Instr. and Meth. A*, **636**, pp.S231-S236.
- [101] “EDGE: Explorer of diffuse emission and gamma-ray burst explosions”, Piro, L.; den Herder, J. W.; Ohashi, T.; Amati, L.; Attéia, J. L.; Barthelmy, S.; Barbera, M.; Barret, D.; Basso, S.; Boer, M.; Borgani, S.; Boyarskiy, O.; Branchini, E.; Branduardi-Raymont, G.; Briggs, M.; Brunetti, G.; Budtz-Jorgensen, C.; Burrows, D.; Campana, S.; Caroli, E.; Chincarini, G.; Christensen, F.; Cocchi, M.; Comastri, A.; Corsi, A.; Cotroneo, V.; Conconi, P.; Colasanti, L.; Cusumano, G.; de Rosa, A.; Del Santo, M.; Etti, S.; Ezoe, Y.; Ferrari, L.; Feroci, M.; Finger, M.; Fishman, G.; Fujimoto, R.; Galeazzi, M.; Galli, A.; Gatti, F.; Gehrels, N.; Gendre, B.; Ghirlanda, G.; Ghisellini, G.; Giommi, P.; Girardi, M.; Guzzo, L.; Haardt, F.; Hepburn, I.; Hermsen, W.; Hoevers, H.; Holland, A.; in’t Zand, J.; Ishisaki, Y.; Kawahara, H.; Kawai, N.; Kaastra, J.; Kippen, M.; de Korte, P. A. J.; Kouveliotou, C.; Kusenko, A.; Labanti, C.; Lieu, R.; Macculi, C.; Makishima, K.; Matt, G.; Mazzotta, P.; McCammon, D.; Méndez, M.; Mineo, T.; Mitchell, S.; Mitsuda, K.; Molendi, S.; Moscardini, L.; Mushotzky, R.; Natalucci, L.; Nicastro, F.; O’Brien, P.; Osborne, J.; Paerels, F.; Page, M.; Paltani, S.; Pareschi, G.; Perinati, E.; Perola, C.; Ponman, T.; Rasmussen, A.; Roncarelli, M.; Rosati, P.; Ruchayskiy, O.; Quadrini, E.; Sakurai, I.; Salvaterra, R.; Sasaki, S.; Sato, G.; Schaye, J.; Schmitt, J.; Sciortino, S.; Shaposhnikov, M.; Shinozaki, K.; Spiga, D.; Suto, Y.; Tagliaferri, G.; Takahashi, T.; Takei, Y.; Tawara, Y.; Tozzi, P.; Tsunemi, H.; Tsuru, T.; Ubertini, P.; Ursino, E.; Viel, M.; Vink, J.; White, N.; Willingale, R.; Wijers, R.; Yoshikawa, K.; Yamasaki, N. 2009, *Experimental Astronomy*, **23**, pp.67–89
- [102] “New CTI Correction Method for Spaced-Row Charge Injection of the Suzaku X-Ray Imaging Spectrometer”, Uchiyama, Hideki; Ozawa, Midori; Matsumoto, Hironori; Tsuru, Takeshi Go; Koyama, Katsuji; Kimura, Masashi; Uchida, Hiroyuki; Nakajima, Hiroshi; Hayashida, Kiyoshi; Tsunemi, Hiroshi; Mori, Hideyuki; Bamba, Aya; Ozaki, Masanobu; Dotani, Tadayasu; Takei, Dai; Murakami, Hiroshi; Mori, Koji; Ishisaki, Yoshitaka; Kohmura, Takayoshi; Prigozhin, Gregory; Kissel, Steve; Miller, Eric D.; Lamarr, Beverly; Bautz, Marshall, 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S9–S15
- [103] “Energy-Scale Calibration of the Suzaku X-Ray Imaging Spectrometer Using the Checker Flag Charge-Injection Technique in Orbit”, Ozawa, Midori; Uchiyama, Hideki; Matsumoto, Hironori; Nakajima, Hiroshi; Koyama, Katsuji; Tsuru, Takeshi Go; Uchino, Masahiro; Uchida, Hiroyuki; Hayashida, Kiyoshi; Tsunemi, Hiroshi; Mori, Hideyuki; Bamba, Aya; Ozaki, Masanobu; Dotani, Tadayasu; Kohmura, Takayoshi; Ishisaki, Yoshitaka; Murakami, Hiroshi; Kato, Takeshi; Kitazono, Takeshi; Kimura, Yuki; Ogawa, Kazuki; Kawai, Shusuke; Mori, Koji; Prigozhin, Gregory; Kissel, Steve; Miller, Eric D.; Lamarr, Beverly; Bautz, Marshall, 2009, *Publ. Astron. Soc. Japan.*, **61**, pp.S1–S7
- [104] “Performance of the Charge Injection Capability of Suzaku XIS”, Hiroshi Nakajima, Hiroya Yamaguchi, Hironori Matsumoto, Takeshi Go Tsuru, Katsuji Koyama, Hiroshi Tsunemi, Kiyoshi Hayashida, Kenichi Torii, Masaaki Namiki, Satoru Katsuda, Masayuki Shoji, Daisuke Matsuura, Tomofumi Miyauchi, Tadayasu Dotani, Masanobu Ozaki, Hiroshi Murakami, Mark W. Bautz, Steve E. Kissel, Beverly LaMarr, Gregory Y. Prigozhin, 2008, *Publ. Astron. Soc. Japan.*, **60**, pp.S1–S10

- [105] “Development of an n-channel CCD, CCD-NeXT1, for Soft X-ray Imager onboard the NeXT satellite”, Shin-ichiro Takagi, Takeshi Go Tsuru, Tatsuya Inui, Hironori Matsumoto, Katsuji Koyama, Hideki Ozawa, Masakuni Tohiguchi, Daisuke Matsuura, Emi Miyata, Hiroshi Tsunemi, Kazuhisa Miyaguchi, Kentaro Maeda, Hirohiko Kohno, 2007, *Nucl. Instr. and Meth. A*, **582**, pp.546-553
- [106] “Performance of a Pixel-Readout Micro Pixel Chamber with the Analog-Readout System used as an X-ray Polarimeter”, Hideaki Katagiri, Kenichi Ono, Hideki Uchiyama, Takeshi Go Tsuru, Hironori Matsumoto, Yoshiaki Hyodo, Hidetoshi Kubo, Kentaro Miuchi and Toru Tanimori, 2007, *Jpn. J. Appl. Phys.*, **46** pp.7932-7938
- [107] “Development of Pixel-Readout Micro-Pixel Chamber for X-ray Polarimetry”, Hideaki Katagiri, Kenichi Ono, Takeshi Tsuru, Hironori Matsumoto, Masaru Ueno, Tsutomu Nagayoshi, Yoshiaki Hyodo, Hidetoshi Kubo, Kentaro Miuchi, and Toru Tanimori 2007, *Jpn. J. Appl. Phys.*, **46** pp.3101-3110
- [108] “X-Ray Imaging Spectrometers (XIS) on Board Suzaku”, Koyama, Katsuji; Tsunemi, Hiroshi; Dotani, Tadayasu; Bautz, Mark W.; Hayashida, Kiyoshi; Tsuru, Takeshi Go; Matsumoto, Hironori; Ogawara, Yoshiaki; Ricker, George R.; Doty, John; Kissel, Steven E.; Foster, Rick; Nakajima, Hiroshi; Yamaguchi, Hiroya; Mori, Hideyuki; Sakano, Masaaki; Hamaguchi, Kenji; Nishiuchi, Mamiko; Miyata, Emi; Torii, Ken'ichi; Namiki, Masaaki; Katsuda, Satoru; Matsuura, Daisuke; Miyauchi, Tomofumi; Anabuki, Naohisa; Tawa, Noriaki; Ozaki, Masanobu; Murakami, Hiroshi; Maeda, Yoshitomo; Ichikawa, Yoshinori; Prigozhin, Gregory Y.; Boughan, Edward A.; Lamarr, Beverly; Miller, Eric D.; Burke, Barry E.; Gregory, James A.; Pillsbury, Allen; Bamba, Aya; Hiraga, Junko S.; Senda, Atsushi; Katayama, Haruyoshi; Kitamoto, Shunji; Tsujimoto, Masahiro; Kohmura, Takayoshi; Tsuboi, Yohko; Awaki, Hisamitsu, 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.23-33 Publications of the Astronomical Society of Japan, Vol.59, No.SP1, pp.23-33
- [109] “The X-Ray Observatory Suzaku”, Mitsuda, Kazuhisa; Bautz, Mark; Inoue, Hajime; Kelley, Richard L.; Koyama, Katsuji; Kunieda, Hideyo; Makishima, Kazuo; Ogawara, Yoshiaki; Petre, Robert; Takahashi, Tadayuki; Tsunemi, Hiroshi; White, Nicholas E.; Anabuki, Naohisa; Angelini, Lorella; Arnaud, Keith; Awaki, Hisamitsu; Bamba, Aya; Boyce, Kevin; Brown, Gregory V.; Chan, Kai-Wing; Cottam, Jean; Dotani, Tadayasu; Doty, John; Ebisawa, Ken; Ezoe, Yuichiro; Fabian, Andrew C.; Figueroa, Enectali; Fujimoto, Ryuichi; Fukazawa, Yasushi; Furusho, Tae; Furuzawa, Akihiro; Gendreau, Keith; Griffiths, Richard E.; Haba, Yoshito; Hamaguchi, Kenji; Harrus, Ilana; Hasinger, Gnther; Hatsukade, Isamu; Hayashida, Kiyoshi; Henry, Patrick J.; Hiraga, Junko S.; Holt, Stephen S.; Hornschemeier, Ann; Hughes, John P.; Hwang, Una; Ishida, Manabu; Ishisaki, Yoshitaka; Isobe, Naoki; Itoh, Masayuki; Iyamoto, Naoko; Kahn, Steven M.; Kamae, Tuneyoshi; Katagiri, Hideaki; Kataoka, Jun; Katayama, Haruyoshi; Kawai, Nobuyuki; Kilbourne, Caroline; Kinugasa, Kenzo; Kissel, Steve; Kitamoto, Shunji; Kohama, Mitsuhiro; Kohmura, Takayoshi; Kokubun, Motohide; Kotani, Taro; Kotoku, Jun'ichi; Kubota, Aya; Madejski, Greg M.; Maeda, Yoshitomo; Makino, Fumiyoshi; Markowitz, Alex; Matsumoto, Chiho; Matsumoto, Hironori; Matsuoka, Masaru; Matsushita, Kyoko; McCammon, Dan; Mihara, Tatehiko; Misaki, Kazutami; Miyata, Emi; Mizuno, Tsunefumi; Mori, Koji; Mori, Hideyuki; Morii, Mikio; Moseley, Harvey; Mukai, Koji; Murakami, Hiroshi; Murakami, Toshio; Mushotzky, Richard; Nagase, Fumiaki; Namiki, Masaaki; Negoro, Hitoshi; Nakazawa, Kazuhiro; Nousek, John A.; Okajima, Takashi; Ogasaka, Yasushi; Ohashi, Takaya; Oshima, Tai; Ota, Naomi; Ozaki, Masanobu; Ozawa, Hideki; Parmar, Arvind N.; Pence, William D.; Porter, F. Scott; Reeves, James N.; Ricker, George R.; Sakurai, Ikuya; Sanders, Wilton T.; Senda, Atsushi; Serlemitsos, Peter; Shibata, Ryo; Soong, Yang; Smith, Randall; Suzuki, Motoko; Szymkowiak, Andrew E.; Takahashi, Hiromitsu; Tamagawa, Toru; Tamura, Keisuke; Tamura, Takayuki; Tanaka, Yasuo; Tashiro, Makoto; Tawara, Yuzuru; Terada, Yukikatsu; Terashima, Yuichi; Tomida, Hiroshi; Torii, Ken'ichi; Tsuboi, Yohko; Tsujimoto, Masahiro; Tsuru,

Takeshi Go; Turner, Martin J. L.; Ueda, Yoshihiro; Ueno, Shiro; Ueno, Masaru; Uno, Shin'ichiro; Urata, Yuji; Watanabe, Shin; Yamamoto, Norimasa; Yamaoka, Kazutaka; Yamasaki, Noriko Y.; Yamashita, Koujun; Yamauchi, Makoto; Yamauchi, Shigeo; Yaqoob, Tahir; Yonetoku, Daisuke; Yoshida, Atsumasa 2007, *Publ. Astron. Soc. Japan.*, **59**, pp.1-7

- [110] “Development of p-Channel Charge-Coupled Device for NeXT, the Next Japanese X-ray Astronomical Satellite Mission”, Matsuura, Daisuke; Ozawa, Hideki; Tohiguchi, Masakuni; Uchino, Masahiro; Miyata, Emi; Tsunemi, Hiroshi; Inui, Tatsuya; Tsuru, Takeshi Go; Kamata, Yukiko; Nakaya, Hidehiko; Miyazaki, Satoshi; Miyaguchi, Kazuhisa; Muramatsu, Masaharu; Suzuki, Hisanori; Takagi, Shinichiro; *Jpn. J. Appl. Phys.* 2006, **45** pp.8904-8909
- [111] “The development of a back-illuminated supportless CCD for SXI onboard the NeXT satellite”, T.G. Tsuru, S. Takagi, H. Matsumoto, T. Inui, K. Koyama, H. Tsunemi, K. Hayashida, E. Miyata, T. Dotani, M. Ozaki, H. Awaki, S. Kitamoto and T. Kohmura, 2005, *Nucl. Instr. and Meth. A*, **541** 392 – 397
- [112] “Performance of back supportless CCDs for the NeXT mission”, S.-i. Takagi, T. Go Tsuru, H. Matsumoto, K. Koyama, H. Tsunemi, E. Miyata, S. Miyazaki, Y. Kamata, H. Muramatsu, H. Suzuki, K. Miyaguchi, 2005, *Nucl. Instr. and Meth. A*, **541** 385 – 391
- [113] “The ground calibration of X-ray CCD cameras (XIS) with front-illuminated chips onboard Astro-E2”, H. Nakajima, H. Yamaguchi, H. Matsumoto, T. G. Tsuru, K. Koyama, S. Kissel, B. LaMarr, M. Bautz, 2005, *Nucl. Instr. and Meth. A*, **541**, 365 – 371
- [114] “X-ray imaging spectrometers (XIS) of Astro-E2”, H. Matsumoto, K. Koyama, T.G. Tsuru, H. Nakajima, H. Yamaguchi, H. Tsunemi, K. Hayashida, E. Miyata, K. Torii, M. Namiki, T. Dotani, M. Ozaki, H. Murakami, N. Anabuki, S. Kitamoto, H. Awaki, T. Kohmura, H. Katayama, A. Bamba, M.W. Bautz, J.P. Doty, G.R. Ricker, R.F. Foster, G.Y. Prigozhin, S.E. Kissel, B.E. Burke, A.D. Pillsbury, B. LaMarr, 2005, *Nucl. Instr. and Meth. A*, **541**, 357 – 364
- [115] “Application of micro-pixel chambers for X-ray polarimetry”, M. Ueno, H. Kubo, K. Miuchi, T. Nagayoshi, R. Orito, A. Takada, A. Takeda, T. Tanimori, T. Tsuru, 2004, *Nucl. Instr. and Meth. A*, **525** 28 – 32
- [116] “A Hybrid X-ray Imaging Spectrometer for NeXT and the Next Generation X-ray Satellite”, T.G. Tsuru, T. Tanimori, A. Bamba, K. Imanishi, K. Koyama, H. Kubo, H. Matsumoto, K. Miuchi, M. Nagayoshi, R. Orito, A. Takada, S. Takagi, M. Tsujimoto, M. Ueno, H. Tsunemi, K. Hayashida, and E. Miyata, 2004, *Adv. Space Res.*, **34**, Issue 12, p. 2688-2690.
- [117] “X-ray CCD calibration system with fluorescent X-rays”, K. Hamaguchi, Y. Maeda, H. Matsumoto, M. Nishiuchi, H. Tomida, K. Koyama, H. Awaki, T.G. Tsuru, 2000, *Nucl. Instr. and Meth. A*, **450**, 360 – 364
- [118] “Ground Calibration of X-ray CCD Camera XIS onboard ASTRO-E”, T. Tsuru, M. Nishiuchi, H. Awaki, K. Hamaguchi, K. Koyama, H. Tomida, M. Sakano, Astro-E XIS team, 2000, *Adv. Space Res.*, **25**, 885–888
- [119] “The hard X-ray response of the XIS-CCD for Astro-E: qualification of the X-ray CCD detector”, M. Nishiuchi, K. Koyama, H. Awaki, T. Tsuru, M. Sakano, K. Hamaguchi, H. Murakami, H. Tsunemi, K. Hayashida, S. Kitamoto, E. Miyata, T. Dotani, M. Ozaki, M. Bautz, J. Doty, S. Kissel, R. Foster, G. Ricker, 1999, *Nucl. Instr. and Meth. A*, **436**, 79–84
- [120] “Development of a fast readout system of an X-ray CCD”, H. Awaki, K. Hamaguchi, K. Koyama, H. Tomida, T. Tsuru, 1999, *Nucl. Instr. and Meth. A*, **436**, 170

- [121] “Radiation Damage on X-Ray CCDs and Restoration Technique for Space Astronomy”, Hiroshi Tomida, Hironori Matsumoto, Masanobu Ozaki, Yuji Tazawa, Hisamitsu Awaki, Takeshi Tsuru, Katsuji Koyama, Hiroshi Tsunemi, Koei Yamamoto, 1997, *Publ. Astron. Soc. Japan.*, **49**, 405-412
- [122] “In-Orbit Performance of the Gas Imaging Spectrometer onboard ASCA”, Kazuo Makishima, Makoto Tashiro, Ken Ebisawa, Hajime Inoue, Yasushi Fukazawa, Shuichi Gunji, Masaharu Hirayama, Eriko Ide-sawa, Yasushi Ikebe, Manabu Ishida, Yoshitaka Ishisaki, Naoko Iyomoto, Tsuneyoshi Kamae, Hidehiro Kaneda, Ken’ichi Kikuchi, Yoshiki Kohmura, Hidetoshi Kubo, Kyoko Matsushita, Keiichi Matsuzaki, Tatehiro Mihara, Ken’ichiro Nakagawa, Takaya Ohashi, Yoshitaka Saito, Yutaro Sekimoto, Tadayuki Takahashi, Takayuki Tamura, Takeshi Tsuru, Yoshihiro Ueda, Noriko Y. Yamasaki, 1996, *Publ. Astron. Soc. Japan.*, **48**, 171 – 189
- [123] “The Gas Imaging Spectrometer on Board ASCA”, Takaya Ohashi, Ken Ebisawa, Yasushi Fukazawa, Kenji Hiyoshi, Michitaro Horii, Yasushi Ikebe, Hitoshi Ikeda, Hajime Inoue, Manabu Ishida, Yoshitaka Ishisaki, Toshio Ishizuka, Shunsuke Kamijo, Hidehiro Kaneda, Yoshiki Kohmura, Kazuo Makishima, Tatehiro Mihara, Makoto Tashiro, Toshio Murakami, Riichirou Shoumura, Yasuo Tanaka, Yoshihiro Ueda, Koju Taguchi, Takeshi Tsuru, Toshiaki Takeshima, 1996, *Publ. Astron. Soc. Japan.*, **48**, 157-170

Contribution to International Conference on Science(は口頭講演、 は招待講演)

- [124] “X-ray Study of 3-D View of the Galactic Center Region and 1000-yr Activity History of Sagittarius A*”, Takeshi Go Tsuru on behalf of the Suzaku GC team, in Frascati Workshop 2013, “Multifrequency Behaviour of High Energy Cosmic Sources”, held in Palermo, Italy, May 23 - June 1, 2013
- [125] “Suzaku observation of a supergiant fast X-ray transient, AX J1841.0-0536”, Kawabata, Kumiko; Nobukawa, Masayoshi; Tsuru, Takeshi Go; Koyama, Katsuji in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, *AIP conference*, **1427**, pp. 310-311 (2012)
- [126] “New approach to the past activity of Sagittarius A* from a 3 dimensional view of X-ray reflection nebulae near Sagittarius C”, Ryu, Syukyo Gando; Nobukawa, Masayoshi; Tsuru, Takeshi Go; Nakashima, Shinya; Koyama, Katsuji; Uchiyama, Hideki, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, *AIP conference*, **1427**, pp. 284-285 (2012)
- [127] “Wide spatial profiles of Fe K α lines in the Galactic center diffuse X-rays”, Uchiyama, H.; Nobukawa, M.; Tsuru, T. G.; Koyama, K.; Matsumoto, H., in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, *AIP Conference Proceedings*, **1427**, pp. 282-283 (2012)
- [128] “Extremely over-ionized plasma in the supernova remnant G359.1-0.5”, Ohnishi, Takao; Koyama, Katsuji; Tsuru, Takeshi Go; Masai, Kuniaki; Yamaguchi, Hiroya; Ozawa, Midori, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, *AIP Conference Proceedings*, **1427**, pp. 271-272 (2012)
- [129] “Suzaku study of X-ray emission from the molecular clouds in the Galactic center region”, Nobukawa, Masayoshi; Ryu, Syukyo G.; Nakashima, Shinya; Tsuru, Takeshi Go; Koyama, Katsuji; Uchiyama, Hideki, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku

Science Conference”, held in SLAC, USA, July 20 - 22, 2011, AIP Conference Proceedings, **1427**, pp. 209-216 (2012)

- [130] “Suzaku Observation of the Galactic Center Region”, T.G.Tsuru, R.Fukuoka, Y.Hyodo, T.Inui, K.Koyama, S.Nakashima, M.Nobukawa, T.Ohnishi, S.G.Ryu, M.Sawada, Y.Takizawa, S.Yamauchi, H.Uchiyama, T.Yuasa, H.Matsumoto, H.Mori, M.Tsujimoto, J.Miura, H.Nakajima, D.Chernysov, V.Dogiel, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011
- [131] “Discovery of K-shell Lines of Neutral S, Ar, Ca, Cr, and Mn Atoms from the Galactic Center Region”, Nobukawa, M.; Koyama, K.; Tsuru, T. G.; Ryu, S. G., in “The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies.” Proceedings of a workshop held at Shanghai, China on October 19-23, 2009. Edited by Mark R. Morris, Q. Daniel Wang, and Feng Yuan. San Francisco: Astronomical Society of the Pacific, 2011, p.456
- [132] “Suzaku Discovery of Two Peculiar Clumps at the South End of the Radio Arc”, Fukuoka, R.; Koyama, K.; Ryu, S. G.; Tsuru, T. G., in “The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies.” Proceedings of a workshop held at Shanghai, China on October 19-23, 2009. Edited by Mark R. Morris, Q. Daniel Wang, and Feng Yuan. San Francisco: Astronomical Society of the Pacific, 2011, p.438
- [133] “An X-Ray Face-on View of the Galactic Center Molecular Clouds Observed with Suzaku”, Ryu, S. G.; Koyama, K.; Nobukawa, M.; Fukuoka, R.; Tsuru, T. G., in “The Galactic Center: a Window to the Nuclear Environment of Disk Galaxies.” Proceedings of a workshop held at Shanghai, China on October 19-23, 2009. Edited by Mark R. Morris, Q. Daniel Wang, and Feng Yuan. San Francisco: Astronomical Society of the Pacific, 2011, p.430
- [134] “Discovery of Strong Radiative Recombination Continua from the Supernova Remnant G359.1-0.5”, Ohnishi, Takao; Koyama, Katsuji; Tsuru, Takeshi Go; Masai, Kuniaki; Yamaguchi, Hiroya; Ozawa, Midori, in “The 10th International Symposium on Origin of Matter and Evolution of Galaxies: OMEG-2010” held in Osaka University, JAPAN, March 8-10, 2010, AIP Conference Proceedings, **1269**, pp. 463-465 (2010).
- [135] “Discovery of the K-shell Lines of Neutral Ar, Ca, Cr, and Mn Atoms from the Galactic Center Region”, Nobukawa, Masayoshi; Koyama, Katsuji; Tsuru, Takeshi Go; Ryu, Syukyo G.; Tatischeff, Vincent, in “The 10th International Symposium on Origin of Matter and Evolution of Galaxies: OMEG-2010” held in Osaka University, JAPAN, March 8-10, 2010, AIP Conference Proceedings, **1269**, pp. 154-159 (2010).
- [136] “An X-Ray Face-On View Of The Galactic Center Molecular Clouds Observed With Suzaku”, S.G. Ryu, K.Koyama, M.Nobukawa, R.Fukuoka, T.G.Tsuru in “The Energetic Cosmos : from Suzaku to ASTRO-H” held in Otaru, JAPAN, June 28th - July 2nd, 2009, ISSN 1349-113X JAXA-SP-09-008E, pp.116 (2010)
- [137] “Differences of the Galactic Diffuse X-ray Emissions from the Galactic Center, Ridge and Bulge Regions”, Hideki Uchiyama, Masayoshi Nobukawa, Hironori Matsumoto, Takeshi Go Tsuru, and Katsuji Koyama, in “The Energetic Cosmos : from Suzaku to ASTRO-H” held in Otaru, JAPAN, June 28th - July 2nd, 2009, ISSN 1349-113X JAXA-SP-09-008E, pp.162 (2010)
- [138] “Discovery of the X-ray emission from the unidentified TeV object HESS J1741 - 302”, in “The Energetic Cosmos : from Suzaku to ASTRO-H” held in Otaru, JAPAN, June 28th - July 2nd, 2009, ISSN 1349-113X JAXA-SP-09-008E, pp.154 (2010)

- [139] “The Tornado ” and “ the Chimney” – Two Peculiar Diffuse X-ray Objects with Outflowing Structures in the Galactic Center Region. –”, Takeshi Go Tsuru, Masayoshi Nobukawa, Hiroshi Nakajima, Makoto Sawada, Hironori Matsumoto, Katsuji Koyama, Tomoharu Oka, Kunihiko Tanaka, Shinji Matsumura, in “The Energetic Cosmos : from Suzaku to ASTRO-H” held in Otaru, JAPAN, June 28th - July 2nd, 2009, ISSN 1349-113X JAXA-SP-09-008E, pp.118 (2010)
- [140] “The Suzaku Hard X-ray Survey on the Galactic Center Region”, Tsuru, T.; Uchiyama, H.; Nobukawa, M.; Sawada, M.; Ryu, S. G.; Fukuoka, R.; Koyama, K., in “The Extreme sky: Sampling the Universe above 10 keV”. October 13-17 (2009), Otranto (Lecce) Italy. Published online at <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=96>
- [141] “Starburst Galaxies: Outflows of Metals and Energy into the IGM”, Strickland, David K.; Hornschemeier, Ann; Ptak, Andrew; Schlegel, Eric; Tremonti, Christy; Tsuru, Takeshi; Tüllmann, Ralph; Zezas, Andreas, in “Astro2010: The Astronomy and Astrophysics Decadal Survey”, Science White Papers, no. 289
- [142] “The Suzaku Highlights”, Tsuru, T., in Vulcano Workshop 2008, “Frontier Objects in Astrophysics and Particle Physics”, held in Vulcano, Italy, May 26 - 31, 2008
- [143] “Suzaku Observation of HESS J 1825-137; Discovery of an unusually extended X-ray pulsar wind nebula of PSR J1826-1334”, Uchiyama, H.; Matsumoto, H.; Tsuru, T. G.; Koyama, K., in “The X-ray Universe 2008” Symposium held in Granada, Spain, 27-30 May, 2008; Published online at <http://xmm.esac.esa.int/external/xmm.science/workshops/2008symposium>
- [144] “Molecular Bubbles and Outflows in the Edge-on Starburst Galaxies M82 and NGC 2146”, Matsushita, Satoki; Tsai, A. L.; Kawabe, Ryohei; Nakanishi, Kouichiro; Vila-Vilaro, B.; Kohno, Kotaro; Inui, T.; Matsumoto, H.; Tsuru, T. G.; Peck, A. B, in “Mapping the Galaxy and Nearby Galaxies”, Astrophysics and Space Science Proceedings, Volume . ISBN 978-0-387-72767-7. Springer Science+Business Media, LLC, 2008, p. 352
- [145] “X-ray emission from the sagittarius D SNR region with Suzaku”, Nobukawa, Masayoshi; Koyama, Katsuji; Tsuru, Takeshi; Sawada, Makoto, in “37th COSPAR Scientific Assembly”. Held 13-20 July 2008, in Montréal, Canada., p.2243
- [146] “The Origin of the 6.7-keV line in the Galactic Center Region Suggested by the Suzaku and NIR Data”, T.G.Tsuru, M.Nobukawa, Y.Hyodo, K.Koyama and the Kyoto GC team, 2007, in “The Suzaku X-ray Universe (Suzaku2007)”, held in San Diego 2007 Dec. 10-12
- [147] “Suzaku Observations of the Seyfert 2 Galaxy NGC 4388”, Fukazawa, Y.; Shirai, H.; Ohno, M.; Yonetoku, D.; Yokota, S.; Murakami, T.; Iwasawa, K.; Terashima, Y.; Awaki, H.; Tsuru, T.; Ozawa, M.; Fujimoto, R., 2007, ASP Conference Series, **373**, p.165, in “The Central Engine of Active Galactic Nuclei”, proceedings of the conference held 16-21 October, 2006 at Xi’an Jiaotong University, Xi’an, China. Edited by Luis C. Ho and Jian-Min Wang,
- [148] “X-ray Spectrum of ‘the Cap’ of M82”, Takeshi Go Tsuru, Midori Ozawa, and the Suzaku M82 team, 2007, *Prog. Theor. Phys. Suppl.*, **169**, 57 – 60 in “The Extreme Universe in the Suzaku Era (Suzaku2006)”, held in Kyoto, 2006 Dec. 4-8
- [149] “M82 X-1 –The Hyper Luminous X-Ray Source–”, T. G. Tsuru, H. Matsumoto, T. Inui, S. Matsushita, R. Kawabe, T. Harashima, T. Maihara, F. Iwamuro, 2004, *Prog. Theor. Phys. Suppl.*, **155**, 59 – 66

- [150] “Peculiar Characteristics of the Hyper-Luminous X-Ray Source M82 X-1”, H. Matsumoto, I. Tatsuya, T. G. Tsuru, S. Matsushita, K. Watarai, S. Mineshige, 2004, *Prog. Theor. Phys. Suppl.*, **155**, 379 – 380
- [151] “Chandra Observation of the Starburst Galaxy NGC 2146”, T. Inui, H. Matsumoto, T. G. Tsuru, S. Matsushita, 2004, *Prog. Theor. Phys. Suppl.*, **155**, 347 – 348
- [152] “Starburst at the Molecular Superbubble in M82”, S. Matsushita, R. Kawabe, K. Kohno, H. Matsumoto, T.G. Tsuru, B. Vila-Vilar, 2004, in “The Dense Interstellar Medium in Galaxies”, Proceedings of the 4th Cologne-Bonn-Zermatt Symposium, Zermatt, Switzerland, 22-26 September 2003. Edited by S.Pfalzner, C. Kramer, C. Staubmeier, and A. Heithausen. Springer proceedings in physics, Vol. 91. Berlin, Heidelberg: Springer, p.177
- [153] “Starburst at the Molecular Superbubble in M82”, S. Matsushita, R. Kawabe, K. Kohno, H. Matsumoto, T. Tsuru, B. Vila-Vilar, 2004, in “The Neutral ISM in Starburst Galaxies.” Published by Astronomical Society of the Pacific Volume 320, 2004. Editor(s): Susanne Aalto, Susanne Huttemeister, and Alan Pedlar. ISBN: 1-58381-182-6, p.138
- [154] “Peculiar Characteristics of a Hyper-luminous X-ray Source in M82”, H. Matsumoto, T. G. Tsuru, K. Watari, S. Mineshige, S. Matsushita, 2003, in “The Proceedings of the IAU 8th Asian-Pacific Regional Meeting”, Volume I, held 2-5 July 2002 at National Center of Sciences, Hitotsubashi Memorial Hall, Tokyo, Japan. ASP Conference Proceedings, Vol. 289. Edited by Satoru Ikeuchi, John Hearnshaw and Tomoyuki Hanawa. ISBN: 1-58381-134-6. San Francisco: Astronomical Society of the Pacific, p. 291-294
- [155] “Abundance Ratios of M82 and Nucleosynthesis of Hypernovae”, H. Umeda, K. Nomoto, T. G. Tsuru, T. Nakamura, 2003, in “Astrophysical Supercomputing using Particle Simulations”, IAU Symposium #208, held 10-13 July 2001 in Tokyo, Japan. Edited by Junichiro Makino and Piet Hut, San Francisco: Astronomical Society of the Pacific, p.461
- [156] “Starburst at the Molecular Superbubble in M82”, Satoki Matsushita, Ryohei Kawabe, Kotaro Kohno, Hironori Matsumoto, Takeshi G. Tsuru, Baltasar Vila-Vilaro, 2003, in “Star Formation at High Angular Resolution”, International Astronomical Union. Symposium no. 221, held 22-25 July, 2003 in Sydney, Australia
- [157] “Galactic Gamma-Ray Halo of NGC 253”, T. G. Tsuru, C. Itoh, R. Enomoto, S. Yanagita, T. Yoshida, 2003, in “Workshop on Galaxies and Clusters of Galaxies”, Proceedings of the workshop held at Shuzenji, 29-31 October, 2002. Japan Society for the Promotion of Science, 2003., p.47
- [158] “Galactic Gamma-Ray Halo of the nearby Starburst Galaxy NGC 253”, Yoshida, T.; Tsuru, T.G.; Itoh, C.; Enomoto, R.; Yanagita, S., 2003, in “Workshop on Galaxies and Clusters of Galaxies”, Proceedings of the 28th International Cosmic Ray Conference. July 31-August 7, 2003. Trukuba, Japan. Under the auspices of the International Union of Pure and Applied Physics (IUPAP). Editors: T. Kajita, Y. Asaoka, A. Kawachi, Y. Matsubara and M. Sasaki, p.2289
- [159] “Discovery and Observation of Intermediate Massive Black Hole”, T. G. Tsuru, H. Matsumoto, S. Matsushita, R. Kawabe, T. Harashima, F. Iwamuro, T. Maihara, E. Ebisuzaki, J. Makino, in “The 11th Workshop on General Relativity and Gravitation”, held in Waseda, 9-12 January, 2002.
- [160] “Characteristics of the X-ray Spectrum of the Ultra-Luminous X-ray Object in M82”, Hironori Matsumoto, T.G.Tsuru, 2001, in “Two Years of Science with Chandra”, held in Washington, DC, 5-7 September, 2001. p148

- [161] “Multi wavelength observations of the IMBH in M82”, H. Matsumoto, T. G. Tsuru, T. Harashima, F. Iwamuro, T. Maihara, S. Matsushita, R. Kawabe, 2001, in “American Astronomical Society Meeting” 198, 56.05
- [162] “X-Ray Evidence of an AGN in the Starburst Galaxy M82”, Takeshi G. Tsuru, Hironori Matsumoto, 2001, in “Black Holes in Binaries and Galactic Nuclei”, Proceedings of the ESO Workshop held at Garching, Germany, 6-8 September 1999. Lex Kaper, Edward P. J. van den Heuvel, Patrick A. Woudt (eds.), p. 178. Springer.
- [163] “X-ray Evidence of an AGN in M82”, H. Matsumoto, T.G. Tsuru, 2001, in “X-ray astronomy : stellar endpoints, AGN, and the diffuse X-ray background”, proceedings of a conference held in Bologna, Italy, 6-10 September 1999. Published by Melville, NY: American Institute of Physics, 2001. xvii, 1041 p. Edited by Nicholas E. White, Giuseppe Malaguti, and Giorgio G.C. Palumbo. AIP conference proceedings, Vol. 599. ISBN 0735400431, p.758
- [164] “Optical Follow-Up Observations of the ASCA Large Sky Survey”, M. Akiyama, K. Ohta, T. Yamada, Y. Ueda, T. Takahashi, M. Sakano, T. Tsuru, B. Boyle, 1998, in “The Hot Universe” held in Kyoto, eds. Katsuji Koyama, Shunji Kitamoto, Masayuki Itoh (Kluwer Academic, Dordrecht) IAU Sym. No. 188, p.465
- [165] “ASCA Observations of Distant Clusters of Galaxies”, T.G. Tsuru, 1998, in “The Hot Universe” held in Kyoto, eds. Katsuji Koyama, Shunji Kitamoto, Masayuki Itoh, (Kluwer Academic Dordrecht), IAU Sym. No.188, p.65
- [166] “Difference Between X-Ray Luminous and X-Ray Faint Elliptical Galaxies”, K. Matsushita, K. Makishima, N. Arimoto, H. Awaki, H. Matsumoto, T. Tsuru, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.179
- [167] “ASCA Observation of Early-Type Galaxies”, H. Matsumoto, H. Awaki, T. Tsuru, K. Koyama, K. Matsushita, K. Makishima, T. Ohashi, ASCA Team, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.165
- [168] “ASCA Observation of the Starburst Galaxy M82”, T. Tsuru, I. Hayashi, H. Awaki, K. Koyama, Y. Fukazawa, Y. Ishisaki, K. Iwasawa, T. Ohashi, R. Petre, J. Nousek, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.157
- [169] “ASCA Observations of Distant Clusters of Galaxies”, T. Tsuru, K. Koyama, J.P. Hughes, N. Arimoto, T. Kii, M. Hattori, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.129
- [170] “The Variety of Metal Abundance Distributions in the Clusters of Galaxies”, Y. Fukazawa, T. Tamura, H. Ezawa, K. Makishima, K. Kikuchi, T. Ohashi, Y. Ikebe, T. Tsuru, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.101
- [171] “X-Ray Search for Dark Lens Objects”, M. Hattori, Y. Ikebe, T. Mihara, T. Asaoka, T. Takeshima, H. Böhringer, D. M. Neumann, S. Schindler, T. Tsuru, T. Tamura, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda (Universal Academy Press, Tokyo), p.67

- [172] “ASCA Large Sky Survey and Studies of the Cosmic X-Ray Background”, Y. Ueda, H. Inoue, T. Takahashi, Y. Ogasaka, Y. Ishisaki, K. Makishima, T. Tsuru, M. Sakano, K. Ohta, M. Akiyama, T. Yamada, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda, (Universal Academy Press, Tokyo), p.27
- [173] “ASCA Observations of the Starburst Galaxy M82”, T. Tsuru, I. Hayashi, H. Awaki, K. Koyama, Y. Fukazawa, Y. Ishisaki, K. Iwasawa, T. Ohashi, R. Petre, J. Nousek, 1997, in “Starburst Activity in Galaxies”, held in Puebla, Pue., Mexico, April 29-May 3, eds. Franco, Terlevich, Serrano, Revista Mexicana de Astronomia y Astrofisica Serie de Conferencias, **6**, p.218
- [174] “X-ray search for dark lens objects”, M. Hattori, Y. Ikebe, I. Asaoka, T. Takeshima, T. Mihara, H. Böhringer, T. G. Tsuru, T. Tamura, 1996, in “Röntgenstrahlung from the Universe”, eds. H.U. Zimmermann, J. Trümper, H. Yorke, MPE Report **263**, p.583
- [175] “ASCA Observations of Distant Clusters of Galaxies”, T. Tsuru, K. Koyama, J. P. Hughes, N. Arimoto, T. Kii, M. Hattori, 1996, in “UV and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas”, eds. K. Yamashita, T. Watanabe, (Universal Academy Press, Tokyo), p.375
- [176] “Metal Abundances of X-Ray Emitting Gas in Elliptical Galaxies”, K. Matsushita, H. Awaki, Y. Fukazawa, K. Makishima, K. Masai, H. Matsumoto, T. Ohashi, T. Tsuru, 1996, in “UV and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas”, eds. K. Yamashita, T. Watanabe, (Universal Academy Press, Tokyo), p.335
- [177] “Systematic X-Ray Study of Early-Type Galaxies with ASCA”, H. Matsumoto, H. Awaki, T. Tsuru, K. Koyama, K. Matsushita, K. Makishima, T. Ohashi, ASCA Team, 1996, in “UV and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas”, eds. K. Yamashita, T. Watanabe, (Universal Academy Press, Tokyo), p.331
- [178] “ASCA Observations of Starburst Galaxies”, H. Awaki, T. Tsuru, K. Koyama, ASCA Team, 1996, in “UV and X-ray Spectroscopy of Astrophysical and Laboratory Plasmas”, eds. K. Yamashita, T. Watanabe, (Universal Academy Press, Tokyo), p.327
- [179] “CIV 1550 transition line observations of AB Doradus with the Hubble Space Telescope”, O. Vilhu, P. Muhli, J. Huovelin, S. Rucinski, A. Collier Cameron, B. Slee, E. Budding, T. Banks, B. Foing, T. Tsuru, 1996, in “Cool stars; stellar systems; and the sun”, eds. Roberto Pallavicini, Andrea K. Dupree, (Astronomical Society of the Pacific), p.297
- [180] “ASCA observatioin of the Star Burst Galaxy M82”, T. Tsuru, I. Hayashi, K. Koyama, Y. Fukazawa, Y. Ishisaki, K. Iwasawa, T. Ohashi, R. Petre, A. Rasmussen, J. Nousek, 1994, in “New Horizen of X-ray Astronomy – first results from ASCA –” eds. F. Makino, T. Ohashi, (Universal Academy Press, Tokyo), p.529
- [181] “ASCA Observations of Three Bright Early-type Galaxies, NGC 4472, NGC 4406 and NGC 4636”, H. Awaki, R.F. Mushotzky, T. Tsuru, A.C. Fabian, Y. Fukazawa, M. Lowenstein, K. Makishima, H. Matsumoto, T. Mihara, T. Ohashi, G.R. Ricker, P.J. Serlemitsos, Y. Tsusaka, T. Yamazaki, 1994, in “New Horizen of X-ray Astronomy – first results from ASCA –” eds. F. Makino, T. Ohashi, (Universal Academy Press, Tokyo), p.503
- [182] “ASCA Observation of the Elliptical Galaxy M87”, H. Matsumoto, T. Tsuru, H. Awaki, K. Koyama, ASCA Team, 1994, in “New Horizen of X-ray Astronomy – first results from ASCA –” eds. F. Makino, T. Ohashi, (Universal Academy Press, Tokyo), p.511

- [183] “ASCA Observation of the Elliptical Galaxies”, K. Matsushita, K. Makishima, H. Awaki, T. Tsuru, H. Matsumoto, T. Ohashi, R.F. Mushotzky, M. Lowenstein, A.C Fabian, C.R. Canizares, ASCA Team, 1994, in “New Horizen of X-ray Astronomy – first results from ASCA –” eds. F. Makino, T. Ohashi, (Universal Academy Press, Tokyo), p.513
- [184] “X-ray Probing of the Dark Matter”, K.Koyama, T.Tsuru, 1993, in “International Symposium on Neutrino Astrophysics (Takayama)”, eds, K. Nakamura and H. Suzuki, (Universal Academy Press, Tokyo), pp.387
- [185] “Hot Halo around the Galactic Bulge”, S. Yamauchi, K. Koyama, T. Tsuru, 1992, in “Frontiers of X-ray Astronpmy”, eds. Y. Tanaka and K. Koyama, (University Academy Press, Tokyo), p.407
- [186] “Ginga Observation of Normal Galaxies”, T. Ohashi, T. Tsuru, 1992, in “Frontiers of X-ray Astronpmy”, eds. Y. Tanaka and K. Koyama, (University Academy Press, Tokyo), p.435
- [187] “X-Ray Studies of Hot Gas Ejected from Galaxies –Ginga Observations of Poor Clusters”, T. Tsuru, Y. Ikebe, T. Ohashi, K. Makishima, I. Hatsukade, K. Yamashita, W. Forman, M. Arnaud, 1992, in “Frontiers of X-ray Astronpmy”, eds. Y. Tanaka and K. Koyama, (University Academy Press, Tokyo), p.485
- [188] “X-ray Study of Normal Galaxies with Ginga”, T. Ohashi, K. Makishima, T. Mihara, T. Tsuru, H. Awaki, K. Koyama, S. Takano, H. Kondo, 1990, in “Windows on Galaxies”, eds. G. Fabbiano, J.S Gallagher, A. Renzini, (Kluwer Academic Publishers), p.243

Contribution to International Conference on Instruments)(は口頭講演、は招待講演)

- [189] “Soft x-ray imager onboard ASTRO-H”, Tsunemi, Hiroshi; Hayashida, Kiyoshi; Nakajima, Hiroshi; Tsuru, Takeshi Go; Tanaka, Takaaki; Dotani, Tadayasu; Ozaki, Masayuki; Natsukari, Chikara; Tomida, Hiroshi; Hiraga, Junko S.; Kohmura, Takayoshi; Murakami, Hiroshi; Mori, Koji; Yamauchi, Makoto; Hatsukade, Isamu; Bamba, Aya “UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVIII.” SPIE held in San Diego, California, United States — August 25, 2013, Proceedings of the SPIE, **8859**, pp. 88590C (9pages) (2013)
- [190] “Specification Design and New Results of X-Ray Astronomical SOI Pixel Detector”, Ayaki Takeda, Y.Arai (KEK, Japan), T.G.Tsuru, S.G.Ryu, S.Nakashima (Kyoto Univ., Japan), A.Iwata, T.Imamura, T.Ohmoto, T.Maeda (A-R-Tec Corp., Japan) IEEE-NSS2011, held in Anaheim, California, USA, 2012.11.01
- [191] “Development and Performance of Kyoto’s X-ray Astronomical SOI pixel sensor”, T.G.Tsuru, S.G. Ryu, S.Nakashima (Kyoto), A.Takeda, Y.Arai (KEK), + SOIPIX group, T. Imamura, A. Iwata, T. Ohmoto, T. Maeda (A-R-Tec), M. Bautz, G.Y.Prigozhin, S.E.Kissel, B.LaMarr, R.F.Foster (MIT), H. Nakajima, H. Tsunemi (Osaka) J.P.Doty (Noqsi) “High Energy, Optical, and Infrared Detectors for Astronomy V.”, SPIE held in Amsterdam, 2012 July 01-06, Edited by Andrew D. Holland, James W. Beletic (2012)
- [192] “Soft x-ray imager (SXI) onboard ASTRO-H”, Hayashida, Kiyoshi; Tsunemi, Hiroshi; Tsuru, Takeshi Go; Dotani, Tadayasu; Nakajima, Hiroshi; Anabuki, Naohisa; Ozaki, Masanobu; Natsukari, Chikara; Hiraga, Junko S.; Tomida, Hiroshi; Kohmura, Takayoshi; Murakami, Hiroshi; Mori, Koji; Yamauchi, Makoto; Hatsukade, Isamu; Nishioka, Yusuke; Bamba, Aya; Uchida, Hiroyuki; Nobukawa, Masayoshi;

Tanaka, Takaaki; Nagino, Ryo; Ueda, Shutaro; Fujinaga, Takahisa; Matsuta, Keiko; Ohnishi, Takao; Doty, John P. "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray." SPIE heid in Amsterdam, 2012 July 01-06, Edited by Tadayuki Takahashi, Stephen S. Murray, Jan-Willem A. den Herder, Proceedings of the SPIE, **8443**, pp. 844323-1 (9pages) (2012)

- [193] "The ASTRO-H X-ray Observatory", Takahashi, Tadayuki; Mitsuda, Kazuhisa; Kelley, Richard; Aarts, Henri; Aharonian, Felix; Akamatsu, Hiroki; Akimoto, Fumie; Allen, Steve; Anabuki, Naohisa; Angelini, Lorella; Arnaud, Keith; Asai, Makoto; Audard, Marc; Awaki, Hisamitsu; Azzarello, Philipp; Baluta, Chris; Bamba, Aya; Bando, Nobutaka; Bautz, Mark; Blandford, Roger; Boyce, Kevin; Brown, Greg; Cackett, Ed; Chernyakova, Mara; Coppi, Paolo; Costantini, Elisa; de Plaa, Jelle; den Herder, Jan-Willem; DiPirro, Michael; Done, Chris; Dotani, Tadayasu; Doty, John; Ebisawa, Ken; Eckart, Megan; Enoto, Teruaki; Ezoe, Yuichiro; Fabian, Andrew; Ferrigno, Carlo; Foster, Adam; Fujimoto, Ryuichi; Fukazawa, Yasushi; Funk, Stefan; Furuzawa, Akihiro; Galeazzi, Massimiliano; Gallo, Luigi; Gandhi, Poshak; Gendreau, Keith; Gilmore, Kirk; Haas, Daniel; Haba, Yoshito; Hamaguchi, Kenji; Hatsukade, Isamu; Hayashi, Takayuki; Hayashida, Kiyoshi; Hiraga, Junko; Hirose, Kazuyuki; Hornschemeier, Ann; Hoshino, Akio; Hughes, John; Hwang, Una; Iizuka, Ryo; Inoue, Yoshiyuki; Ishibashi, Kazunori; Ishida, Manabu; Ishimura, Kosei; Ishisaki, Yoshitaka; Ito, Masayuki; Iwata, Naoko; Iyomoto, Naoko; Kaastra, Jelle; Kallman, Timothy; Kamae, Tuneyoshi; Kataoka, Jun; Katsuda, Satoru; Kawahara, Hajime; Kawaharada, Madoka; Kawai, Nobuyuki; Kawasaki, Shigeo; Khangaluyan, Dmitry; Kilbourne, Caroline; Kimura, Masashi; Kinugasa, Kenzo; Kitamoto, Shunji; Kitayama, Tetsu; Kohmura, Takayoshi; Kokubun, Motohide; Kosaka, Tatsuro; Koujelev, Alex; Koyama, Katsuji; Krimm, Hans; Kubota, Aya; Kunieda, Hideyo; LaMassa, Stephanie; Laurent, Philippe; Lebrun, Francois; Leutenegger, Maurice; Limousin, Olivier; Loewenstein, Michael; Long, Knox; Lumb, David; Madejski, Grzegorz; Maeda, Yoshitomo; Makishima, Kazuo; Marchand, Genevieve; Markevitch, Maxim; Matsumoto, Hiironori; Matsushita, Kyoko; McCammon, Dan; McNamara, Brian; Miller, Jon; Miller, Eric; Mineshige, Shin; Minesugi, Kenji; Mitsuishi, Ikuyuki; Miyazawa, Takuya; Mizuno, Tsunefumi; Mori, Hideyuki; Mori, Koji; Mukai, Koji; Murakami, Toshio; Murakami, Hiroshi; Mushotzky, Richard; Nagano, Hisei; Nagino, Ryo; Nakagawa, Takao; Nakajima, Hiroshi; Nakamori, Takeshi; Nakazawa, Kazuhiro; Namba, Yoshiharu; Natsukari, Chikara; Nishioka, Yusuke; Nobukawa, Masayoshi; Nomachi, Masaharu; O'Dell, Steve; Odaka, Hirokazu; Ogawa, Hiroyuki; Ogawa, Mina; Ogi, Keiji; Ohashi, Takaya; Ohno, Masanori; Ohta, Masayuki; Okajima, Takashi; Okamoto, Atsushi; Okazaki, Tsuyoshi; Ota, Naomi; Ozaki, Masanobu; Paerels, Fritzs; Paltani, St?phane; Parmar, Arvind; Petre, Robert; Pohl, Martin; Porter, F. Scott; Ramsey, Brian; Reis, Rubens; Reynolds, Christopher; Russell, Helen; Safi-Harb, Samar; Sakai, Shin-ichiro; Sameshima, Hiroaki; Sanders, Jeremy; Sato, Goro; Sato, Rie; Sato, Yohichi; Sato, Kosuke; Sawada, Makoto; Serlemitsos, Peter; Seta, Hiromi; Shibano, Yasuko; Shida, Maki; Shimada, Takanobu; Shinozaki, Keisuke; Shirron, Peter; Simionescu, Aurora; Simmons, Cynthia; Smith, Randall; Sneiderman, Gary; Soong, Yang; Stawarz, Lukasz; Sugawara, Yasuharu; Sugita, Hiroyuki; Sugita, Satoshi; Szymkowiak, Andrew; Tajima, Hiroyasu; Takahashi, Hiromitsu; Takeda, Shin-ichiro; Takei, Yoh; Tamagawa, Toru; Tamura, Takayuki; Tamura, Keisuke; Tanaka, Takaaki; Tanaka, Yasuo; Tashiro, Makoto; Tawara, Yuzuru; Terada, Yukikatsu; Terashima, Yuichi; Tombesi, Francesco; Tomida, Hiroshi; Tsuboi, Yohko; Tsujimoto, Masahiro; Tsunemi, Hiroshi; Tsuru, Takeshi; Uchida, Hiroyuki; Uchiyama, Yasunobu; Uchiyama, Hideki; Ueda, Yoshihiro; Ueno, Shiro; Uno, Shinichiro; Urry, Meg; Ursino, Eugenio; de Vries, Cor; Wada, Atsushi; Watanabe, Shin; Werner, Norbert; White, Nicholas; Yamada, Takahiro; Yamada, Shinya; Yamaguchi, Hiroya; Yamasaki, Noriko; Yamauchi, Shigeo; Yamauchi, Makoto; Yatsu, Yoichi; Yonetoku, Daisuke; Yoshida, Atsumasa; Yuasa, Takayuki "Space Telescopes and Instrumentation 2012: Ultraviolet to Gamma Ray." SPIE heid in Amsterdam, 2012 July 01-06, Edited by Tadayuki Takahashi, Stephen S. Murray, Jan-Willem A. den Herder, Proceedings of the SPIE, **8443**,

pp. 84431Z-1 (22pages) (2012)

- [194] “Development of a built-in Analog-to-Digital Converter for a X-ray Astronomy Detector with the SOI CMOS Technology”, Shinya Nakashima, Syukyo G. Ryu, Takeshi G. Tsuru (Kyoto Univ.), Ayaki Takeda, Yasuo Arai (KEK), Hiroshi Nakajima, Hiroshi Tsunemi (Osaka Univ.), John P. Doty (Noqsi Aerospace Ltd.), Toshifumi. Imamura, Takafumi. Ohmoto, Tomoaki Maeda, Atsushi. Iwata (A-R-Tec Corp.), IEEE-NSS2011, held in Valencia, Spain, Oct. 23-29, 2011
- [195] “Design and Development of Trigger-driven Readout with X-ray SOI Pixel Sensor”, Syukyo Gando Ryu, Shinya Nakashima, Takeshi Go Tsuru (Kyoto-U), Ayaki Takeda, Yukiko Ikemoto, Yasuo Arai (KEK), Toshifumi Imamura, Takafumi Ohmoto, and Atsushi Iwata (A-R-Tec). IEEE-NSS2011, held in Valencia, Spain, Oct. 23-29, 2011
- [196] “Development and Performance of X-ray Astronomical SOI pixel sensor”, T.G.Tsuru, S.G.Ryu, S.Nakashima (Kyoto), Y. Arai, A. Takeda, Y.Ikemoto (KEK), A.Iwata, T.Imamura, T.Ohmoto (A-R-Tec), IEEE-NSS2011, held in Valencia, Spain, Oct. 23-29, 2011
- [197] “Evaluation of a SOI pixel sensor with thick depletion layer for future X-ray astronomical missions”, Nakashima, Shinya; Ryu, Sykyo Gando; Tsuru, Takeshi Go; Takeda, Ayaki; Arai, Yasuo; Miyoshi, Toshinobu; Ichimiya, Ryo; Ikemoto, Yukiko; Imamura, Toshifumi; Ohmoto, Takafumi; Iwata, Atsushi, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, AIP Conference Proceedings, **1427**, pp. 259-260 (2012)
- [198] “Optical, UV and soft x-ray transmission of optical blocking layer for the x-ray CCD”, Kawai, K.; Kohmura, T.; Ikeda, S.; Kaneko, K.; watanabe, T.; Tsunemi, H.; Hayashida, K.; Anabuki, N.; Nakajima, H.; Ueda, S.; Tsuru, T. G.; Dotani, T.; Ozaki, M.; Matsuta, K.; Fujinaga, T.; Kitamoto, S.; Murakami, H.; Hiraga, J.; Mori, K.; ASTRO-H SXI Team, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, AIP Conference Proceedings, **1427**, pp. 255-256 (2012)
- [199] “Soft x-ray response of the x-ray CCD camera directly coated with optical blocking layer”, Ikeda, S.; Kohmura, T.; Kawai, K.; Kaneko, K.; watanabe, T.; Tsunemi, H.; Hayashida, K.; Anabuki, N.; Nakajima, H.; Ueda, S.; Tsuru, T. G.; Dotani, T.; Ozaki, M.; Matsuta, K.; Fujinaga, T.; Kitamoto, S.; Murakami, H.; Hiraga, J.; Mori, K.; ASTRO-H SXI Team, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, AIP Conference Proceedings, **1427**, pp. 253-254 (2012)
- [200] “The calibration status of P-sum mode for XIS on board Suzaku”, Kohmura, T.; Kawai, K.; Ikeda, S.; Kaneko, K.; Tsunemi, H.; Hayashida, K.; Nakajima, H.; Koyama, K.; Tsuru, T. G.; Nobukawa, M.; Dotani, T.; Ozaki, M.; Tsujimoto, M.; Matsuta, K.; Kitamoto, S.; Murakami, H.; Higashi, K.; Uchiyama, H.; Mori, K.; Suzaku XIS Team, in Suzaku 2011, “Exploring the X-ray Universe: Suzaku and Beyond”- the fourth Suzaku Science Conference”, held in SLAC, USA, July 20 - 22, 2011, AIP Conference Proceedings, **1427**, pp. 247-248 (2012)
- [201] “The ASTRO-H mission”, Tsuru, T., on behalf of the ASTRO-H team, in Frascati Workshop 2011, “Multifrequency Behaviour of High Energy Cosmic Sources”, held in Vulcano, Italy, May 23 - 28, 2011
- [202] “Development of the x-ray CCD for SXI on board ASTRO-H”, Ueda, Shutaro; Hayashida, Kiyoshi; Nakajima, Hiroshi; Anabuki, Naohisa; Uchida, Hiroyuki; Tsunemi, Hiroshi; Fujikawa, Mari; Mori, Hideki; Kohmura, Takayoshi; Watanabe, Tatsuo; Kawai, Kohei; Ikeda, Shoma; Kaneko, Kenta;

Sakata, Kazuya; Todoroki, Shotaro; Mizuno, Hideki; Yagihashi, Nobuyoshi; Dotani, Tadayasu; Ozaki, Masanobu; Tsuru, Takeshi Go; Muramatsu, Masaharu; Suzuki, Hisanori; Takagi, Shin'ichiro "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVII." Edited by Tsakalakos, Loucas, Proceedings of the SPIE, **8145**, pp. 814504-814504-9 (2011)

- [203] "Development of the soft x-ray imager (SXI) for ASTRO-H", Hayashida, Kiyoshi; Tsunemi, Hiroshi; Tsuru, Takeshi Go; Dotani, Tadayasu; Nakajima, Hiroshi; Anabuki, Naohisa; Ozaki, Masanobu; Natsukari, Chikara; Hiraga, Junko S.; Tomida, Hiroshi; Kohmura, Takayoshi; Murakami, Hiroshi; Mori, Koji; Yamauchi, Makoto; Hatsukade, Isamu; Bamba, Aya; Uchida, Hiroyuki; Nobukawa, Masayoshi; Ueda, Shutaro; Fujinaga, Takahisa; Matsuta, Keiko; Ohnishi, Takao; Doty, John P. "UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XVII." Edited by Tsakalakos, Loucas, Proceedings of the SPIE, **8145**, pp. 814505-814505-9 (2011)
- [204] "Development of X-ray Imaging Spectroscopy Sensor with SOI CMOS Technology", Syukyo Gando Ryu, Takeshi Go Tsuru, Shinya Nakashima, Yasuo Arai, Ayaki Takeda, T. Miyoshi, R. Ichimiya, Y. Ikemoto, R. Takashima, T. Imamura, T. Ohmoto, and A. Iwata, "IEEE 2010 Nuclear Science Symposium" held in Knoxville, USA, Oct. 30 – Nov. 6, 2010 (2010), N02-4, in press
- [205] "Development of INTPIX and CNTPIX Silicon-On-Insulator Monolithic Pixel Devices", K. Hara, M. Kochiyama, K. Koike, T. Sega, K. Shinsho, Y. Arai, Y. Fujita, R. Ichimiya, Y. Ikegami, Y. Ikemoto, T. Kohriki, T. Miyoshi, K. Tauchi, S. Terada, T. Tsuboyama, Y. Unno, Y. Horii, Y. Onuki, D. Nio, A. Takeda, K. Hanagaki, J. Uchida, T. Tsuru, S.G. Ryu, I. Kurachi, H. Kasai, N. Kuriyama, N. Miura, M. Okihara, M. Motoyoshi, "19th International Workshop on Vertex Detectors - VERTEX 2010" held in Loch Lomond, Scotland, UK, June 06 – 11 (2010)
- [206] "Soft x-ray imager (SXI) onboard ASTRO-H", Hiroshi Tsunemi; Kiyoshi Hayashida; Takeshi Go Tsuru; Tadayasu Dotani; Junko S. Hiraga; Naohisa Anabuki; Aya Bamba; Isamu Hatsukade; Takayoshi Kohmura; Koji Mori; Hiroshi Murakami; Hiroshi Nakajima; Masanobu Ozaki; Hiroyuki Uchida; Makoto Yamauchi, "Space Telescopes and Instrumentation 2010: Ultraviolet to Gamma Ray", Monique Arnaud held in San Diego, USA, 27 June - 2 July 2010; Stephen S. Murray; Tadayuki Takahashi, Editors, Proceedings of the SPIE, **7732**, pp. 773210 (2010).
- [207] "Measuring the EUV and optical transmission of optical blocking layer for x-ray CCD camera", Takayoshi Kohmura; Kohei Kawai; Tatsuo Watanabe; Taiki Ogawa; Shoma Ikeda; Kaoru Ushiyama; Kenta Kaneko; Shunji Kitamoto; Hiroshi Murakami; Eri Takenaka; Kenta Nagasaki; Keiichi Higashi; Masaki Yoshida; Hiroshi Tsunemi; Kiyoshi Hayashida; Naohisa Anabuki; Hiroshi Nakajima; Rui Sakaguchi; Kazuo Shigeyama; Shutaro Ueda; Takeshi Go Tsuru; Tadayasu Dotani; Masanobu Ozaki; Aya Bamba; Junko S. Hiraga; Koji Mori, "Space Telescopes and Instrumentation 2010: Ultraviolet to Gamma Ray", Monique Arnaud held in San Diego, USA, 27 June - 2 July 2010; Stephen S. Murray; Tadayuki Takahashi, Editors, Proceedings of the SPIE, **7732**, pp. 77323D (2010).
- [208] "DIOS: the diffuse intergalactic oxygen surveyor: status and prospects", T. Ohashi; Y. Ishisaki; Y. Ezoe; S. Sasaki; H. Kawahara; K. Mitsuda; N. Y. Yamasaki; Y. Takei; M. Ishida; Y. Tawara; I. Sakurai; A. Furuzawa; Y. Suto; K. Yoshikawa; N. Kawai; R. Fujimoto; T. G. Tsuru; K. Matsushita; T. Kitayama, "Space Telescopes and Instrumentation 2010: Ultraviolet to Gamma Ray", Monique Arnaud held in San Diego, USA, 27 June - 2 July 2010; Stephen S. Murray; Tadayuki Takahashi, Editors, Proceedings of the SPIE, **7732**, pp. 77321S (2010).
- [209] "The ASTRO-H Mission", Tadayuki Takahashi; Kazuhisa Mitsuda; Richard Kelley; Felix Aharonian; Fumie Akimoto; Steve Allen; Naohisa Anabuki; Lorella Angelini; Keith Arnaud; Hisamitsu

Awaki; Aya Bamba; Nobutaka Bando; Mark Bautz; Roger Blandford; Kevin Boyce; Greg Brown; Mara Chernyakova; Paolo Coppi; Elisa Costantini; Jean Cottam; John Crow; Jelle de Plaa; Cor de Vries; Jan-Willem den Herder; Michael DiPirro; Chris Done; Tadayasu Dotani; Ken Ebisawa; Teruaki Enoto; Yuichiro Ezoe; Andrew Fabian; Ryuichi Fujimoto; Yasushi Fukazawa; Stefan Funk; Akihiro Furuzawa; Massimiliano Galeazzi; Poshak Gandhi; Keith Gendreau; Kirk Gilmore; Yoshito Haba; Kenji Hamaguchi; Isamu Hatsukade; Kiyoshi Hayashida; Junko Hiraga; Kazuyuki Hirose; Ann Hornschemeier; John Hughes; Una Hwang; Ryo Iizuka; Kazunori Ishibashi; Manabu Ishida; Kosei Ishimura; Yoshitaka Ishisaki; Naoki Isobe; Masayuki Ito; Naoko Iwata; Jelle Kaastra; Tim Kallman; Tuneyoshi Kamae; Hideaki Katagiri; Jun Kataoka; Satoru Katsuda; Madoka Kawaharada; Nobuyuki Kawai; Shigeo Kawasaki; Dmitry Khangaluyan; Caroline Kilbourne; Kenzo Kinugasa; Shunji Kitamoto; Tetsu Kitayama; Takayoshi Kohmura; Motohide Kokubun; Tatsuro Kosaka; Taro Kotani; Katsuji Koyama; Aya Kubota; Hideyo Kunieda; Philippe Laurent; Francois Lebrun; Olivier Limousin; Michael Loewenstein; Knox Long; Grzegorz Madejski; Yoshitomo Maeda; Kazuo Makishima; Maxim Markevitch; Hironori Matsumoto; Kyoko Matsushita; Dan McCammon; Jon Miller; Shin Mineshige; Kenji Minesugi; Takuya Miyazawa; Tsunefumi Mizuno; Koji Mori; Hideyuki Mori; Koji Mukai; Hiroshi Murakami; Toshio Murakami; Richard Mushotzky; Yujin Nakagawa; Takao Nakagawa; Hiroshi Nakajima; Takeshi Nakamori; Kazuhiro Nakazawa; Yoshiharu Namba; Masaharu Nomachi; Stephen O'Dell; Hiroyuki Ogawa; Mina Ogawa; Keiji Ogi; Takaya Ohashi; Masanori Ohno; Masayuki Ohta; Takashi Okajima; Naomi Ota; Masanobu Ozaki; Frederik Paerels; Stéphane Paltani; Arvind Parmar; Robert Petre; Martin Pohl; S. Porter; Brian Ramsey; Christopher Reynolds; Shin-ichiro Sakai; Rita Sambruna; Goro Sato; Yoichi Sato; Peter Serlemitsos; Maki Shida; Takanobu Shimada; Keisuke Shinozaki; Peter Shirron; Randall Smith; Gary Sneiderman; Yang Soong; Lukasz Stawarz; Hiroyuki Sugita; Andrew Szymkowiak; Hiroyasu Tajima; Hiromitsu Takahashi; Yoh Takei; Tohru Tamagawa; Takayuki Tamura; Keisuke Tamura; Takaaki Tanaka; Yasayuki Tanaka; Yasuo Tanaka; Makoto Tashiro; Yuzuru Tawara; Yukikatsu Terada; Yuichi Terashima; Francesco Tombesi; Hiroshi Tomida; Miyako Tozuka; Yohko Tsuboi; Masahiro Tsujimoto; Hiroshi Tsunemi; Takeshi Tsuru; Hiroyuki Uchida; Yasunobu Uchiyama; Hideki Uchiyama; Yoshihiro Ueda; Shinichiro Uno; Meg Urry; Shin Watanabe; Nicholas White; Takahiro Yamada; Hiroya Yamaguchi; Kazutaka Yamaoka; Noriko Yamasaki; Makoto Yamauchi; Shigeo Yamauchi; Yoichi Yatsu; Daisuke Yonetoku; Atsumasa Yoshida, "Space Telescopes and Instrumentation 2010: Ultraviolet to Gamma Ray", Monique Arnaud held in San Diego, USA, 27 June - 2 July 2010; Stephen S. Murray; Tadayuki Takahashi, Editors, Proceedings of the SPIE, **7732**, pp. 77320Z (2010).

- [210] "The ASTRO-H Mission", Takahashi, T.; Kelley, R.; Mitsuda, K.; Kunieda, H.; Petre, R.; White, N.; Dotani, T.; Fujimoto, R.; Fukazawa, Y.; Hayashida, K.; Ishida, M.; Ishisaki, Y.; Kokubun, M.; Makishima, K.; Koyama, K.; Madejski, G. M.; Mori, K.; Mushotzky, R.; Nakazawa, K.; Ogasaka, Y.; Ohashi, T.; Ozaki, M.; Tajima, H.; Tashiro, M.; Terada, Y.; Tsunemi, H.; Tsuru, T. G.; Ueda, Y.; Yamasaki, N.; Watanabe, S.; The ASTRO-H Team, Astrophysics with All-Sky X-Ray Observations, Proceedings of the RIKEN Symposium, held 10-12 June, (2008). RIKEN, and JAXA Suzuki Umetaro Hall, RIKEN Wako, Saitama, Japan., p.356
- [211] "Evaluation of the fully-depleted back-illuminated CCD for Subaru Suprime-Cam", Kamata, Yukiko; Miyazaki, Satoshi; Nakaya, Hidehiko; Tsuru, Takeshi G.; Tsunemi, Hiroshi; Miyata, Emi; Muramatsu, Masaharu; Suzuki, Hisanori; Miyaguchi, Kazuhisa, High Energy, Optical, and Infrared Detectors for Astronomy III. Edited by Dorn, David A.; Holland, Andrew D. Proceedings of the SPIE, **7021**, pp. 70211S-70211S-9 (2008).
- [212] "NeXT SXI data processing system", Ozaki, Masanobu; Anabuki, Naohisa; Matsuura, Daisuke; Nakajima, Hiroshi; Miyata, Emi; Hayashida, Kiyoshi; Tsunemi, Hiroshi; Tsuru, Takeshi G.; Matsumoto, Hi-

ronori; Bamba, Aya; Fujinaga, Takahisa; Dotani, Tadayasu; Takashima, Takeshi; Takahashi, Tadayuki; Tomida, Hiroshi; Hiraga, Junko; Murakami, Hiroshi; Kohmura, Takayoshi; Masukawa, Kazunori; Kato, Masahiro; Nakajima, Atsushi; Watanabe, Yo, *Space Telescopes and Instrumentation 2008: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Flanagan, Kathryn A. *Proceedings of the SPIE*, **7011**, pp. 70112L-70112L-9 (2008).

- [213] “Front- and back-illuminated x-ray CCD performance in low- and high-Earth orbit: performance trends of Suzaku XIS and Chandra ACIS detectors”, LaMarr, Beverly; Grant, Catherine; Kissel, Steve; Prigozhin, Gregory; Bautz, Mark; Tsuru, Takeshi Go; Tsunemi, Hiroshi; Dotani, Tadayasu; Hayashida, Kiyoshi; Matsumoto, Hironori, *Space Telescopes and Instrumentation 2008: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Flanagan, Kathryn A. *Proceedings of the SPIE*, **7011**, pp. 70112C-70112C-10 (2008).
- [214] “Flight calibration of the Suzaku XIS using the charge injection technique”, Ozawa, Midori; Uchiyama, Hideki; Nakajima, Hiroshi; Mori, Hideyuki; Matsumoto, Hironori; Tsuru, Takeshi Go; Koyama, Katsuji; Uchino, Masahiro; Hayashida, Kiyoshi; Tsunemi, Hiroshi; Murakami, Hiroshi; Dotani, Tadayasu; Prigozhin, Gregory; Kissel, Steve; Miller, Eric; LaMarr, Beverly; Bautz, Marshall, *Space Telescopes and Instrumentation 2008: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Flanagan, Kathryn A. *Proceedings of the SPIE*, **7011**, pp. 70112B-70112B-12 (2008).
- [215] “The SXI: CCD camera onboard the NeXT mission”, Tsunemi, Hiroshi; Tsuru, Takeshi Go; Dotani, Tadayasu; Hayashida, Kiyoshi; Bautz, Marshall W., *Space Telescopes and Instrumentation 2008: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Flanagan, Kathryn A. *Proceedings of the SPIE*, **7011**, pp. 70110Q-70110Q-10 (2008).
- [216] “The NeXT Mission”, Takahashi, Tadayuki; Kelley, Richard; Mitsuda, Kazuhisa; Kunieda, Hideyo; Petre, Robert; White, Nicholas; Dotani, Tadayasu; Fujimoto, Ryuichi; Fukazawa, Yasushi; Hayashida, Kiyoshi; Ishida, Manabu; Ishisaki, Yoshitaka; Kokubun, Motohide; Makishima, Kazuo; Koyama, Katsuji; Madejski, Greg M.; Mori, Koji; Mushotzky, Richard; Nakazawa, Kazuhiro; Ogasaka, Yasushi; Ohashi, Takaya; Ozaki, Masanobu; Tajima, Hiroyasu; Tashiro, Makoto; Terada, Yukikatsu; Tsunemi, Hiroshi; Tsuru, Takeshi Go; Ueda, Yoshihiro; Yamasaki, Noriko; Watanabe, Shin, *Space Telescopes and Instrumentation 2008: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Flanagan, Kathryn A. *Proceedings of the SPIE*, **7011**, pp. 70110O-70110O-14 (2008).
- [217] “The NeXT mission”, Tsuru, T., *Vulcano Workshop 2008, “Frontier Objects in Astrophysics and Particle Physics”*, held in Vulcano, Italy, May 26 - 31, 2008
- [218] “EDGE: explorer of diffuse emission and gamma-ray burst explosions”, den Herder, J. W.; Piro, L.; Ohashi, T.; Amati, L.; Atteia, J.; Barthelmy, S.; Barbera, M.; Barret, D.; Basso, S.; Boer, M.; Borgani, S.; Boyarskiy, O.; Branchini, E.; Branduardi-Raymont, G.; Briggs, M.; Brunetti, G.; Budtz-Jorgensen, C.; Burrows, D.; Campana, S.; Caroli, E.; Chincarini, G.; Christensen, F.; Cocchi, M.; Comastri, A.; Corsi, A.; Cotroneo, V.; Conconi, P.; Colasanti, L.; Cusamano, G.; de Rosa, A.; Del Santo, M.; Etti, S.; Ezoe, Y.; Ferrari, L.; Feroci, M.; Finger, M.; Fishman, G.; Fujimoto, R.; Galeazzi, M.; Galli, A.; Gatti, F.; Gehrels, N.; Gendre, B.; Ghirlanda, G.; Ghisellini, G.; Giommi, P.; Girardi, M.; Guzzo, L.; Haardt, F.; Hepburn, I.; Hermsen, W.; Hoovers, H.; Holland, A.; In’t Zand, J.; Ishisaki, Y.; Kawahara, H.; Kawai, N.; Kaastra, J.; Kippen, M.; de Korte, P. A. J.; Kouveliotou, C.; Kusenko, A.; Labanti, C.; Lieu, R.; Macculi, C.; Makishima, K.; Matt, G.; Mazotta, P.; McCammon, D.; Mndez, M.; Mineo, T.; Mitchell, S.; Mitsuda, K.; Molendi, S.; Moscardini, L.; Mushotzky, R.; Natalucci, L.; Nicastro, F.; O’Brien, P.; Osborne, J.; Paerels, F.; Page, M.; Paltani, S.; Pareschi, G.; Perinati, E.; Perola, C.; Ponman, T.; Rasmussen, A.; Roncarelli, M.; Rosati, P.; Ruchayskiy, O.; Quadrini, E.; Sakurai,

- I.; Salvaterra, R.; Sasaki, S.; Sato, G.; Schaye, J.; Schmidt, J.; Scioritino, S.; Shaposhnikov, M.; Shinozaki, K.; Spiga, D.; Suto, Y.; Tagliaferri, G.; Takahashi, T.; Takei, Y.; Tawara, Y.; Tozzi, P.; Tsunemi, H.; Tsuru, T.; Ubertini, P.; Ursino, E.; Viel, M.; Vink, J.; White, N.; Willingale, R.; Wijers, R.; Yoshikawa, K.; Yamasaki, N., *Optics for EUV, X-Ray, and Gamma-Ray Astronomy III*. Edited by O'Dell, Stephen L.; Pareschi, Giovanni. *Proceedings of the SPIE*, **6688**, pp. 668805 (2007).
- [219] “Mitigating CCD radiation damage with charge injection: first flight results from Suzaku”, Bautz, M. W.; LaMarr, B. J.; Miller, E. D.; Kissel, S. E.; Prigozhin, G. Y.; Burke, B. E.; Gregory, J. A.; Uchiyama, H.; Hyodo, Y.; Yamaguchi, H.; Mori, H.; Tsuru, T.; Matsumoto, H.; Koyama, K.; Torii, K.; Katsuda, S.; Hasuike, K.; Nakajima, H.; Hayashida, K.; Tsunemi, H.; Murakami, H.; Ozaki, M.; Dotani, T., *UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XV*. Edited by Siegmund, Oswald H. *Proceedings of the SPIE*, **6686**, pp. 66860Q-66860Q-11 (2007).
- [220] “The onboard calibration for the spaced-row charge injection of the Suzaku XIS”, Uchiyama, Hideki; Hyodo, Yoshiaki; Yamaguchi, Hiroya; Nakajima, Hiroshi; Mori, Hideyuki; Tsuru, Takeshi Go; Matsumoto, Hironori; Koyama, Katsuji; Torii, Ken'ichi; Katsuda, Satoru; Hasuike, Kazuto; Hayashida, Kiyoshi; Tsunemi, Hiroshi; Murakami, Hiroshi; Dotani, Tadayasu; Prigozhin, Gregory; Kissel, Steve; Miller, Eric; LaMarr, Beverly; Bautz, Marshall, *UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XV*. Edited by Siegmund, Oswald H. *Proceedings of the SPIE*, **6686**, pp. 66860P-66860P-9 (2007).
- [221] “Ground bakeout experiment of the optical blocking filter (OBF) for the Suzaku XIS”, Hideyuki Mori; Takeshi Go Tsuru; Hironori Matsumoto; Hideki Uchiyama; Midori Ozawa; Yohjiro Takikawa; Masayoshi Nobukawa; Katsuji Koyama; Ken'ichi Torii; Noriaki Tawa; Shunji Kitamoto; Keisuke Sudoh; Takayoshi Kohmura *UV, X-Ray, and Gamma-Ray Space Instrumentation for Astronomy XV*. Edited by Siegmund, Oswald H. *Proceedings of the SPIE*, **6686**, pp. 66860O-66860O-12 (2007).
- [222] “Orbital Calibration of the XIS”, Hayashida, K.; Torii, K.; Namiki, M.; Anabuki, N.; Katsuda, S.; Tawa, N.; Miyauchi, T.; Hasuike, K.; Nagai, M.; Tsunemi, H.; Matsumoto, H.; Tsuru, T. G.; Mori, H.; Nakajima, H.; Yamaguchi, H.; Hyodo, Y.; Inui, T.; Uchiyama, H.; Ozawa, M.; Koyama, K.; Miller, E. D.; Bautz, M. W.; Lamarr, B.; Kissel, S. E.; Dotani, T.; Murakami, H.; Ozaki, M.; Anada, T.; Bamba, A.; Hiraga, J.; Senda, A.; Takei, D.; Kitamoto, S.; Mori, K.; Maeno, S.; Suzaku Xis Team, 2007, *Prog. Theor. Phys. Suppl.*, **169**, 316 – 321 in “Suzaku2006”, Kyoto 2006/12/4-8
- [223] “Recent results of the fully depleted back-illuminated CCD developed by Hamamatsu”, Kamata, Yukiko; Miyazaki, Satoshi; Nakaya, Hidehiko; Tsuru, Takeshi Go; Takagi, Shin-ichiro; Tsunemi, Hiroshi; Miyata, Emi; Muramatsu, Masaharu; Suzuki, Hisanori; Miyaguchi, Kazuhisa, *High Energy, Optical, and Infrared Detectors for Astronomy II*. Edited by Dorn, David A.; Holland, Andrew D.. *Proceedings of the SPIE*, **6276**, pp.62761U 1-11 (2006).
- [224] “Development of n-type CCDs for NeXT, the next Japanese x-ray astronomical satellite mission”, Matsuura, D.; Tohiguchi, M.; Ozawa, H.; Miyata, E.; Tsunemi, H.; Takagi, S.; Inui, T.; Tsuru, T. G.; Kamata, Y.; Miyazaki, S.; Nakaya, H.; Miyaguchi, K.; Muramatsu, H.; Suzuki, H. *High Energy, Optical, and Infrared Detectors for Astronomy II*. Edited by Dorn, David A.; Holland, Andrew D.. *Proceedings of the SPIE*, **6276**, pp.627612 1-9 (2006).
- [225] “Development of the x-ray polarimeter by using pixel-readout micro-PICs (micro pixel chambers)”, Katagiri, Hideaki; Ono, Kenichi; Uchiyama, Hideki; Tsuru, Takeshi; Matsumoto, Hironori; Ueno, Masaru; Nagayoshi, Tsutomu; Hyodo, Yosiaki; Tanimori, Toru; Miuchi, Kentaro; Kubo, Hidetoshi, *High Energy, Optical, and Infrared Detectors for Astronomy II*. Edited by Dorn, David A.; Holland, Andrew D.. *Proceedings of the SPIE*, **6276**, pp.62760Z 1-11 (2006)

- [226] “The background properties of Suzaku/XIS”, Yamaguchi, H.; Nakajima, H.; Koyama, K.; Tsuru, T. G.; Matsumoto, H.; Tawa, N.; Tsunemi, H.; Hayashida, K.; Torii, K.; Namiki, M.; Katayama, H.; Dotani, T.; Ozaki, M.; Murakami, H.; Miller, E. *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.626642 1-9 (2006).
- [227] “Energy response of the x-ray imaging spectrometer (XIS) on Suzaku”, Matsumoto, Hironori; Nakajima, Hiroshi; Yamaguchi, Hiroya; Tsuru, Takeshi G.; Koyama, Katsuji; Hayashida, Kiyoshi; Torii, Ken’ichi; Namiki, Masaaki; Tsunemi, Hiroshi; Murakami, Hiroshi; Ozaki, Masanobu; Dotani, Tadayasu; LaMarr, Beverly; Kissel, Steven E.; Bautz, Marshall W. *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.626641 1-8 (2006).
- [228] “Development of fully depleted and back-illuminated charge-coupled devices for soft x-ray imager onboard the NeXT satellite”, Takagi, Shin-ichiro; Tsuru, Takeshi Go; Inui, Tatsuya; Ozawa, Midori; Matsumoto, Hironori; Koyama, Katsuji; Tsunemi, Hiroshi; Miyata, Emi; Ozawa, Hideki; Matsuura, Daisuke; Tohiguchi, Masakuni; Miyazaki, Satoshi; Kamata, Yukiko; Miyaguchi, Kazuhisa; Muramatsu, Masaharu; Suzuki, Hisanori *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.62663V 1-11 (2006).
- [229] “Development of p-type CCD for the NeXT: the next Japanese x-ray astronomical satellite mission”, Ozawa, Hideki; Tohiguchi, Masakuni; Matsuura, Daisuke; Miyata, Emi; Tsunemi, Hiroshi; Takagi, Shin-ichiro; Inui, Tatsuya; Tsuru, Takeshi Go; Kamata, Yukiko; Nakaya, Hidehiko; Miyazaki, Satoshi; Miyaguchi, Kazuhisa; Muramatsu, Masaharu; Suzuki, Hisanori *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.62662N 1-9 (2006).
- [230] “Soft x-ray imager (SXI) onboard the NeXT satellite”, Tsuru, Takeshi Go; Takagi, Shin-ichiro; Matsumoto, Hironori; Inui, Tatsuya; Ozawa, Midori; Koyama, Katsuji; Tsunemi, Hiroshi; Hayashida, Kiyoshi; Miyata, Emi; Ozawa, Hideki; Tohiguchi, Masakuni; Matsuura, Daisuke; Dotani, Tadayasu; Ozaki, Masanobu; Murakami, Hiroshi; Kohmura, Takayoshi; Kitamoto, Shunji; Awaki, Hisamitsu *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.62662I 1-11 (2006).
- [231] “DIOS: the diffuse intergalactic oxygen surveyor”, Ohashi, T.; Ishida, M.; Sasaki, S.; Ishisaki, Y.; Mitsuda, K.; Yamasaki, N. Y.; Fujimoto, R.; Takei, Y.; Tawara, Y.; Furuzawa, A.; Suto, Y.; Yoshikawa, Y.; Kawayara, H.; Kawai, N.; Tsuru, T. G.; Matsushita, K.; Kitayama, T. *Space Telescopes and Instrumentation II: Ultraviolet to Gamma Ray*. Edited by Turner, Martin J. L.; Hasinger, Günther. *Proceedings of the SPIE*, **6266**, pp.62660G 1-9 (2006).
- [232] “The Development of a back-illuminated supportless CCD for SXI onboard NeXT”, Tsuru, T.G., Takagi, S., Matsumoto, H., Inui, T., Ozawa, M., Koyama, K., Tsunemi, H., Hayashida, K., Miyata, E., Ozawa, H., Tohiguchi, M., Matsuura, D., Dotani, T., Ozaki, M., Murakami, H., Kohmura, T., Kitamoto, S., Awaki, H., 2005, *Proc. 'The X-ray Universe 2005'*, p.975–976, El Escorial, Madrid, Spain, 26-30, September 2005
- [233] “The Groud Calbration of the Back-Side Illuminated CCD Camera of X-ray Imaging Spectrometer (XIS) onboard ASTRO-E2 (Suzaku)”, Yamaguchi, H., Nakajima, H., Koyama, K., Tsuru, T.G., Matsumoto, H., Tsunemi, H., Hayashida, K., Torii, K., Namiki, M., Katsuda, S., Matuura, D., Miyuchi,

T., 2005, Proc. 'The X-ray Universe 2005', p.949–954, El Escorial, Madrid, Spain, 26-30, September 2005

- [234] “Wide band X-ray Imager (WXI) and Soft Gamma-ray Detector (SGD) for the NeXT Mission”, Tadayuki Takahashi, A. Awaki, Tadayasu Dotani, Yasushi Fukazawa, Kiyoshi Hayashida, Tuneyoshi Kamae, Jun Kataoka, Nobuyuki Kawai, Shunji Kitamoto, Takayoshi Kohmura, Motohide Kokubun, Katsuji Koyama, Kazuo Makishima, Hironori Matsumoto, Emi Miyata, T. Murakami, Kazuhiro Nakazawa, Masaharu Nomachi, Masanobu Ozaki, Hiroyasu Tajima, Makoto Tashiro, Toru Tamagawa, Yukikatsu Terada, Hiroshi Tsunemi, Takeshi Tsuru, Kazutaka Yamaoka, D. Yonetoku, Atsumasa Yoshida, 2004, *SPIE*, **5488**, 549 – 560
- [235] “Ground calibration of CCD camera (XIS) with front-illuminated chips onboard Astro-E2”, Hiroshi Nakajima, Hiroya Yamaguchi, Hironori Matsumoto, Takeshi Tsuru, Katsuji Koyama, Steve Kissel, Beverly LaMarr, Marshall W. Bautz, 2004, *SPIE*, **5488**, 124 – 135
- [236] “Ground calibration of X-ray CCD detectors with charge injection for the X-ray imaging spectrometer on Astro-E2”, Beverly LaMarr, Mark W. Bautz, Steven E. Kissel, Gregory Y. Prigozhin, Kiyoshi Hayashida, Takeshi G. Tsuru, Hironori Matsumoto, 2004, *SPIE*, **5501**, 385 – 391
- [237] “Onboard data-processing architecture of the soft X-ray imager (SXI) on NeXT satellite”, Masanobu Ozaki, Tadayasu Dotani, Hiroshi Tsunemi, Kiyoshi Hayashida, Takeshi G. Tsuru, 2004, *SPIE*, **5501**, 296 – 303
- [238] “The development of back-supportless CCDs and the wideband hybrid X-ray imager for the NeXT satellite”, Shin-ichiro Takagi, Takeshi G. Tsuru, Hironori Matsumoto, Katsuji Koyama, Hiroshi Tsunemi, Emi Miyata, Satoshi Miyazaki, Yukiko Kamata, Kazuhisa Miyaguchi, Masaharu Muramatsu, Hisanori Suzuki, 2004, *SPIE*, **5501**, 101 – 110
- [239] “Development of thick back-illuminated CCD to improve quantum efficiency in optical longer wavelength using high-resistivity n-type silicon”, Yukiko Kamata, Satoshi Miyazaki, Masaharu Muramatsu, Hisanori Suzuki, Kazuhisa Miyaguchi, Takeshi G. Tsuru, Shin-ichiro Takagi, Emi Miyata, 2004, *SPIE*, **5499**, 210 – 218
- [240] “X-ray imaging spectrometer (XIS) on board Astro-E2”, Tadayasu Dotani, Masanobu Ozaki, Hiroshi Murakami, Katsuji Koyama, Takeshi G. Tsuru, Hironori Matsumoto, Hiroshi Tsunemi, Kiyoshi Hayashida, Emi Miyata, Shunji Kitamoto, and 9 coauthors, 2003, *SPIE*, **4851**, 1071 – 1079
- [241] “A Hybrid X-ray Imaging Spectrometer for NeXT and the Next Generation X-ray Satellite”, T.G.Tsuru, T.Tanimori, A.Bamba, K.Imanishi, K.Koyama, H.Kubo, H.Matsumoto, K.Miuchi, M.Nagayoshi, R.Orito, A.Takada, S.Takagi, M.Tsujimoto, M.Ueno, H.Tsunemi, K.Hayashida, and E.Miyata, in “World Space Congress 2002/34th COSPAR Scientific Assembly” (2002 Oct. 10-19, Houston)
- [242] “Charge diffusion and loss as a function of absorption depth in x-ray CCD”, Makoto Kohno, Kensuke Imanishi, Aya Bamba, Masahiro Tsujimoto, Hiroshi Murakami, Takeshi G. Tsuru, Katsuji Koyama, 2002, *SPIE*, **4497**, 149 – 157
- [243] “A New Event Analysis Method for the X-ray Photon Count CCD”, T. G. Tsuru, H. Awaki, K. Koyama, K. Hamaguchi, H. Murakami, M. Nishiuchi, M. Sakano, H. Tsunemi, 2001, in “X-ray astronomy : stellar endpoints, AGN, and the diffuse X-ray background”, proceedings of a conference held in Bologna, Italy, 6-10 September 1999. Published by Melville, NY: American Institute of Physics,

2001. xvii, 1041 p. Edited by Nicholas E. White, Giuseppe Malaguti, and Giorgio G.C. Palumbo. AIP conference proceedings, Vol. 599. ISBN 0735400431, p.478

- [244] “Evaluations of Domestic X-ray CCDs with XIS Analog Electronics”, A. Bamba, M. Kohno, H. Murakami, K. Imanishi, M. Tsujimoto, T. Tsuru, K. Koyama, H. Awaki, S. Kitamoto, K. Hayashida, H. Katayama, T. Tsunemi, 2001, in “New Century of X-ray Astronomy”, ASP Conference Proceedings Vol. 251. Edited by H. Inoue and H. Kunieda. ISBN: 1-58381-091-9. San Francisco: Astronomical Society of the Pacific, 2001., p.518
- [245] “A Hybrid X-ray Camera for the Next Generation X-ray Satellite”, Takeshi Go Tsuru, Aya Bamba, Kensuke Imanishi, Makoto Kohno, Katsuji Koyama, Hiroshi Murakami, Masahiro Tsujimoto, Toru Tanimori, Masaru Ueno, 2001, in “New Century of X-ray Astronomy”, ASP Conference Proceedings Vol. 251. Edited by H. Inoue and H. Kunieda. ISBN: 1-58381-091-9. San Francisco: Astronomical Society of the Pacific, 2001., p.596
- [246] “Fitting method for analyzing polarized x-rays on CCD camera”, Masahiro Tsujimoto, Hiroshi Murakami, Kenji Hamaguchi, Takeshi G. Tsuru, Hisamitsu Awaki, Katsuji Koyama, 2000, *SPIE*, **4140**, 470 – 477
- [247] “X-ray Imaging Spectrometers for Astro-E: Ground Calibration in Soft X-ray Range”, K.Hayashida, S.Kitamoto, E.Miyata, H.Tsunemi, K.Yoshita, T.Kohmura, K.Mori, K.Katayama, H.Katayama, M.Shouho, M.Ohta, T.Dotani, M.Ozaki, K.Koyama, H.Awaki, T.G.Tsuru, G.Ricker, M.W.Bautz, R.Foster, S.Kissel, 2000, *SPIE*, **4012**, 123 – 136
- [248] “High-energy Performance of X-ray Imaging Spectrometers on board Astro-E”, K. Imanishi, H. Awaki, T. G. Tsuru, K. Hamaguchi, H. Murakami, M. Nishiuchi, and K. Koyama, 2000, *SPIE*, **4012**, 137 – 144
- [249] “Development of A Hybrid X-ray Camera at Kyoto University”, T. G. Tsuru, A. Bamba, K. Imanishi, M. Kohon, H. Murakami, M. Tsujimoto, T. Tanimori, K. Koyama, 2000, in “HEAD meeting”, **32**, 4310
- [250] “The trial of new event extraction method with the X-ray CCD camera XIS for Astro-E”, H. Murakami, T.Tsuru, H.Awaki, M.Sakano, M.Nishiuchi, K.Hamaguchi, K.Koyama, H.Tsunemi, 1999, *SPIE*, **3765**, 160-170
- [251] “Soft x-ray response of the prototype CCD camera (XIS) for Astro-E”, Kiyoshi Hayashida, Shunji Kitamoto, Emi Miyata, Hiroshi Tsunemi, Kiyoshi Hashimoto, Kazunori Katayama, Takayoshi Kohmura, Reiko Asakura, Kumi Yoshita, H. Katayama, M. Shouho, Katsuji Koyama, Takeshi G. Tsuru, Hisamitsu Awaki, Tadayasu Dotani, Masanobu Ozaki, George R. Ricker, John P. Doty, Mark W. Bautz, Steve E. Kissel, Richard F. Foster, 1998, *SPIE*, **3445**, 278
- [252] “Response function of an x-ray CCD camera on board the Astro-E satellite”, Mamiko Nishiuchi, Katsuji Koyama, Takeshi G. Tsuru, Hisamitsu Awaki, Hiroshi Tomida, Kenji Hamaguchi, Hiroshi Tsunemi, 1998, *SPIE*, **3445**, 268-277
- [253] “Data Processing of X-ray CCD camera XIS onboard ASTRO-E”, T. Tsuru, M. Sakano, H. Murakami, H. Awaki, M. Nishiuchi, K. Hamaguchi, K. Koyama, H. Tsunemi in “International Symposium on Solid State Detectors for the 21th Century (SSD21)”, held in Nara, JAPAN, December 4-6, (1998)
- [254] “The Radiation Damage on X-Ray CCD”, H. Tomida, H. Matsumoto, Y. Tazawa, T. Tsuru, H. Awaki, M. Ozaki, K. Koyama, 1997, in “X-Ray Imaging and Spectroscopy of Cosmic Hot Plasmas”, eds. F. Makino, K. Mitsuda, (Universal Academy Press, Tokyo), p.637

- [255] “Radiation damage of the x-ray CCD”, Hiroshi Tomida, Hironori Matsumoto, Masanobu Ozaki, Yuji Tazawa, Hisamitsu Awaki, Takeshi Tsuru, Katsuji Koyama, Hiroshi Tsunemi, K. Yamamoto, 1996, *SPIE*, **2808**, 250
- [256] “In-orbit performance of the GIS instrument on board ASCA (ASTRO-D)”, Makoto Tashiro, Kazuo Makishima, Hajime Ezawa, Yasushi Fukazawa, Eriko Idesawa, Yoshitaka Ishisaki, Naoko Iyomoto, Tsuneyoshi Kamae, Hidehiro Kaneda, Kyoko Matsushita, Keiichi Matsuzaki, Yoshitaka Saito, Yutaro Sekimoto, Takayuki Tamura, Masaharu Hirayama, Manabu Ishida, Hidetoshi Kubo, Kyoko Okada, Tadayuki Takahashi, Yoshihiro Ueda, Koichi Kikuchi, Takaya Ohashi, Noriko Y. Yamasaki, Yoshiki Kohmura, Yasushi Ikebe, Tatehiro Mihara, Takeshi Tsuru, K. Ebisawa, Shuichi Gunji, 1995, *SPIE*, **2518**, 2
- [257] “Calibrations of imaging gas scintillation proportional counters on ASTRO-D”, Yoshiki Kohmura, Yasushi Fukazawa, Yasushi Ikebe, Yoshitaka Ishisaki, S. Kamijo, Hidehiro Kaneda, Kazuo Makishima, Kyoko Matsushita, K. Nakagawa, Makoto Tashiro, Takaya Ohashi, Hajime Inoue, Manabu Ishida, F. Makino, Toshio Murakami, Y. Ogawara, Y. Tanaka, Yoshihiro Ueda, K. Ebisawa, Tatehiro Mihara, T. Takeshima, Takeshi Tsuru, K. Hiyoshi, M. Horii, R. Shomura, K. Taguchi, 1993, *SPIE*, **2006**, 78
- [258] “Imaging gas scintillation proportional counters for ASTRO-D”, Takaya Ohashi, Kazuo Makishima, Manabu Ishida, Takeshi Tsuru, Makoto Tashiro, Tatehiro Mihara, Yoshiki Kohmura, Hajime Inoue, 1991, *SPIE*, **1549**, 90

Thesis

- [259] “X-ray Study of Hot Diffuse Matter in Galaxies and Poor Clusters of Galaxies”, T. Tsuru, 1992, Doctor thesis, University of Tokyo, ISAS RN, 528
- [260] “ASTRO-D 搭載用位置検出型蛍光比例計数管の開発”、
鶴 剛, 1989, 修士論文, 東京大学

特許・特許出願中

- [261] “X線撮像装置 (アルミノポリイミドノアルミ遮光膜)”
特願 2009-074656 (特許出願中)

著書

- [262] 「光と物理学」嶺重慎・高橋義朗・田中耕一郎 [編](共著)、第5章、京都大学学術出版会、初版 2007年10月10日、ISBN978-4-87698-717-7

解説・研究紹介の記事

- [263] “”宇宙のレントゲン”で新種のブラックホールを発見!”
鶴 剛、2009、わくわく理学 (京大理学部)
- [264] “X線天文学 –明るく輝く黒い穴「ブラックホール」の謎を追いかける–”
鶴 剛、2009、日本の学問と研究、創刊号、2009初夏 (Zenis)

- [265] “銀河の大爆発が作った巨大プラズマの「帽子」”
鶴 剛、小澤 碧、2007、天文月報, **100**, No.8, pp.378-384 (2007年8月号)
- [266] “Astronomical applications of a micro pixel chamber”
Hideaki Katagiri, Kentaro Miuchi, Hironori Matsumoto, Hidetoshi Kubo, Takeshi Tsuru, and Toru Tanimori, 2006, SPIE Newsroom, DOI: 10.1117/2.1200609.0408 (20 Oct. 2006)
- [267] “X線天文衛星「すざく」による観測速報(4)”
伊藤真之、馬場 彩、寺田 幸功、鶴 剛、小澤 碧、松下 恭子、大橋 隆哉、太田 直美、深沢 泰司、中澤 和洋、2006、天文月報, **99**, No.6, pp.332-333 (2006年6月号)
- [268] “明るく輝く黒い穴 – ブラックホールの観測 –”
鶴 剛、2003、バリティ, **18**, No.5, pp.29-35 (2003年5月号)
- [269] “中質量ブラックホールの発見”
鶴 剛、2002、天文ガイド (2002年4月号)
- [270] “新種ブラックホールの発見とその意義 – 成長するブラックホール –”
松本浩典、松下聡樹、鶴 剛、川辺良平、2001、物理学会誌, **56**, No.6, pp.423-426 (2001年6月号)
- [271] “X線天文学”
鶴 剛、2001、放射線, **27**, No.4, 77-87
- [272] “M82からの熱い風 – スターバースト銀河のX線観測 –”
鶴 剛、1999、天文月報, **92**, No.9, pp.439-447 (1999年9月号)
- [273] “X線天文衛星との生活”
服部 誠、鶴 剛、1996、宇宙NOW, No.70, pp.3 (1996年1月号)
- [274] “銀河団内の高温プラズマ”
服部 誠、鶴 剛、1994、物理学会誌, **49**, No.9, pp.743-750 (1994年9月号)

国際天文連合速報、ガンマ線バースト連携ネットワーク (IAU, GCN Circular)

- [275] GRB 990704
T. Murakami, A. Yoshida, N. Kawai, T. Tamura, S. Terada, T. Tsuru, 1999, GCN No. Circ. 372
- [276] AX J2315-592
K. Misaki, Y. Kamata, Y. Terashima, K. Isobe, H. Kunieda, Y. Tawara, T. Tsuru, Y. Maeda, M. Sakano, M. Akiyama, H. Sogawa, M. Ishida, R. Fujimoto, 1995, IAU Circ. No. 6260, 1

国際会議 SOC, LOC

- [277] “Expanding the Frontiers of the X-ray Universe”, Nanka Memorial Hall in Johoku Campus of Ehime University, Matsuyama, 19-22 Feb. 2014, (SOC)
- [278] “Supernovae and Gamma-Ray Bursts 2013”, Yukawa Institute for Theoretical Physics, Kyoto, Oct.14 - Nov.15, 2013, (SOC)
- [279] “PIXEL2012”, Inawashiro, 3-7 Sep. 2012, (LOC)
- [280] “The Extreme Universe in the Suzaku Era”, Kyoto TERRSA, Kyoto, 4-12 Dec. 2006
(LOC chair, 参加者合計 386 名、内訳:所属機関が外国 134 名、所属機関が日本 252 名)

- [281] “X-Ray Polarimetry Workshop”, SLAC, Stanford, California, 9-11 February 2004
(SOC, 参加者 111 名)
- [282] “Stellar-Mass, Intermediate-Mass, and Supermassive Black Holes”, Kyoto, 28-31 Oct. 2003
(LOC, 参加者合計 183 名、内訳:所属機関が外国 69 名、所属機関が日本 114 名)

集中講義

- [283] 2010 年 7 月 5-7 日：新潟大学 「プラズマ物理学特論」
- [284] 2008 年 8 月 5-8 日：愛媛大学 「高エネルギー天文学」
- [285] 2003 年 11 月 19-21 日：金沢大学 「ブラックホール天文学」
- [286] 2002 年 11 月 14-16 日：立教大学 「原子物理学特別講義 3」

市民講座など一般向け講演

- [287] “X 線天文学と元素の起源”，
2012 年 12 月 1 日，ELCAS 第 5 期オープンコアコース (講演会)
- [288] “灼熱宇宙の謎 - X 線天文衛星による宇宙観測 - ”，
2012 年 10 月 14 日，京都大学 GCOE・第 5 回市民講座「宇宙と物質の謎に迫る」
- [289] “X 線天文学でみる宇宙”，
2012 年 9 月 15 日，西大和学園中学校・高等学校
- [290] “X 線で宇宙を見る”，
2010 年 7 月 27 日，NPO 法人京都自由大学・夏休み特別講座「宇宙と気象の不思議 4」
- [291] “X 線で輝くブラックホール”，
2010 年 7 月 11 日，京都大学宇宙総合学ユニット・七夕記念講演
- [292] “私たちは宇宙とつながっている”，
2009 年 7 月 29 日，NPO 法人京都自由大学・夏休み特別講座「宇宙と気象の不思議 3」
- [293] “人工衛星を作ろう”，
2008 年 4 月 19 日，京都大学総合博物館特別展「京の宇宙学」ジュニアレクチャー
- [294] “X 線衛星を作る”，
2007 年 10 月 20 日，京都大学大学院理学研究科附属花山天文台・一般公開
- [295] “銀河中心の X 線観測と「すざく」衛星”，
2006 年 6 月 10 日，名古屋大学星の会
- [296] “「すざく」衛星が拓くサイエンス”，
2006 年 2 月 13 日，「光と物理学」京都大学 21COE シンポジウム
- [297] “明るく光るブラックホール”，
2003 年 3 月 9 日，かわべ天文公園
- [298] “X 線で探る銀河団”，
1996 年 8 月 20 日，第 5 回公開セミナー「天文学の最前線」名古屋市科学館

受賞

[299] 1999年3月 第3回日本天文学会欧文報告 (PASJ) 論文賞 (連名での受賞)

“The Gas Imaging Spectrometer on Board ASCA”

[300] 2000年7月 COSPAR・ロシア科学アカデミー・ゼルドビッチメダル (単名での受賞)

“For his work in high energy astrophysics, particularly for his innovative approach to X-ray instrument development and for his observations of X-rays from high temperature plasmas in stellar coronae and in clusters of galaxies.”

学会等での役職等

[301] 2005年1月-2007年3月: 高エネルギー宇宙物理連絡会 運営委員

[302] 2001年-現在: JAXA 宇宙科学研究所 宇宙放射線専門委員会委員

[303] 2013年-現在: 高エネルギー宇宙物理連絡会 将来計画検討委員会委員

代表者として受けた競争的資金 (科研費)

- [304] 新学術研究「3次元半導体検出器で切り拓く新たな量子イメージングの展開」計画研究, 2013~2017年度, 「宇宙最初期ブラックホールの探査研究を実現する衛星搭載X線精密イメージングの開拓」, 鶴剛(研究代表者), 123,200千円(直接経費のみ)
- [305] 基盤研究(B)(一般), 2011~2014年度, 「超低バックグラウンドを実現するAD変換器一体型の広帯域X線SOI撮像分光器の開発」, 鶴剛(研究代表者), 13,100千円(直接経費のみ)
- [306] 基盤研究(B)(一般), 2008~2010年度, 「SOI技術による低バックグラウンド・精密分光撮像・広帯域X線ピクセル検出器の開発」, 鶴剛(研究代表者), 18,460千円
- [307] 特定領域研究「ブラックホール天文学の新展開」計画研究, 2002~2006年度, 「ワイドバンドX線偏光で探るブラックホールの時空構造と活動性」, 鶴剛(研究代表者), 190,600千円
- [308] 基盤研究(B)(一般), 2001~2003年度, 「X線を中心としたスターバースト銀河での巨大ブラックホール形成の多波長観測的研究」, 鶴剛(研究代表者), 13,700千円
- [309] 基盤研究(B)(一般), 1996~1998年度, 「X線を中心とした多波長観測による遠方銀河団と宇宙構造進化論の研究」, 鶴剛(研究代表者), 7,900千円
- [310] 一般研究(B), 1993~1995年度, 「X線を用いた小規模銀河団の研究」, 鶴剛(研究代表者), 6,000千円

代表者として受けた競争的資金 (科研費以外)

- [311] 宇宙航空研究開発機構 宇宙科学研究本部 搭載機器基礎開発実験費, 2013年度, 「X線天文衛星用のワイドバンドSOIピクセル検出器: 軟X線性能の開発」, 鶴剛(研究代表者), 3,500千円(直接経費のみ)
- [312] 宇宙航空研究開発機構 宇宙科学研究本部 搭載機器基礎開発実験費, 2012年度, 「X線天文衛星用のワイドバンドSOIピクセル検出器: 大型化とトリガドリブン読み出しの開発」, 鶴剛(研究代表者), 3,500千円(直接経費のみ)
- [313] 宇宙航空研究開発機構 宇宙科学研究本部 搭載機器基礎開発実験費, 2011年度, 「広いX線エネルギー帯域(0.3-40keV)に高い感度を持つ完全空乏裏面照射型のX線SOIピクセル検出器」, 鶴剛(研究代表者), 3,500千円(直接経費のみ)
- [314] 宇宙航空研究開発機構 宇宙科学研究本部 搭載機器基礎開発実験費, 2008~2010年度, 「SOI技術による低バックグラウンド・精密分光撮像・広帯域X線ピクセル検出器の開発」, 鶴剛(研究代表者), 12,970千円
- [315] 京都大学 21COE「物理学の多様性と普遍性の探求拠点」特別プロジェクト, 2007年度, 「広帯域の新型X線CCDカメラを用いた非熱的宇宙の発生過程の解明」, 鶴剛(研究代表者), 9,219千円
- [316] 京都大学 21COE「物理学の多様性と普遍性の探求拠点」特別プロジェクト, 2005年度, 「広帯域の新型X線CCDを用いた宇宙の暗い加速器の解明」, 鶴剛(研究代表者), 5,985千円
- [317] 山田科学振興財団研究援助, 2001~2002年度, 「X線による中質量ブラックホールの検出と多波長によるその成長過程の観測的研究」, 鶴剛(研究代表者), 2,000千円
- [318] 宇宙科学研究所 搭載機器基礎開発実験費, 2001年度, 「ワイドバンド偏光検出型ハイブリッドX線撮像分光器のカメラボディ及び冷却システムの開発」, 鶴剛(研究代表者), 2,000千円