

発表論文リスト

[Detector & ASIC articles]

[51] "A membrane, pseudo-vertical p-i-n diamond detector", T. Kishishita et al., J. Nucl. Sci. Technol., vol. 60, pp. 1285-1291, 2023.

[50] "Hybrid SiC Pixel Detector for Charged-Particle Beam Monitor", T. Kishishita et al., IEEE Trans. Nucl. Sci. vol. 70, pp. 1210-1214, 2023.

[49] "SiC p+n Junction-Diodes towards Beam Monitor Applications", T. Kishishita and R. Kosugi, Yowichi, Fujita, Yoshinori Fukao, Kazutoshi Kojima, Keiko Masumoto, Hajime Nishiguchi, Monobu M. Tanaka, and Tasunori Tanaka, IEEE Trans. Nucl., vol. 68, pp. 2787-2793, 2021.

[48] "Prototype of Simultaneous Bidirectional Data-Transmitter in 65 nm CMOS", T. Kishishita and H. Krueger, Jour. Instr., vol. 16, T06002, 2021.

[47] "Study of scintillation light collection, production and propagation in a 4 tonne dual-phase LArTPC", B. Aimard et al., Jour. Instr., vol. 16, P03007, 2021.

[46] "Performance study of a 3x1x1 m³ dual phase liquid Argon Time Projection Chamber exposed to cosmic rays", WA 105 Collaboration including T. Kishishita, Jour. Instr., vol. 16 (2021) 08, P08063.

[45] "Development of a front-end ASIC for silicon-strip detectors of the J-PARC muon g-2/EDM experiment", Y. Sato, Y. Fujita, E. Hamada, T. Kishishita, et al., Nucl. Instr. Meth. A, vol. 969 (2020) 164035.

[44] "Positron tracking detector for J-PARC muon g-2/EDM experiment", T. Yamanaka et al., Nucl. Instr. Meth. A, vol. 958 (2020) 162786.

[43] "SliT: A Strip-sensor Readout Chip with Subnanosecond Time-walk for the J-PARC Muon g-2/EDM Experiment", T. Kishishita et al., IEEE Trans. Nucl. Sci., vol. 67, pp.2089-2095, 2020.

[42] "LTARS: Analog Readout Front-end ASIC for Versatile TPC-applications", T. Kishishita et al., Jour. Instr., vol. 15, T09009, 2020.

[41] "Prototype Analog Front-end for Negative Gas and Dual-phase Liquid-Ar TPCs", M. Nakazawa, T. Kishishita, M. Shoji, K. Sakashita, T. Ikeda, H. Ishiura, J. B. R. Battat, C. Nicoloff, M. M. Tanaka, T. Hasegawa, and K. Miuchi, JINST vol. 14, T01008, 2019.

[40] "A new approach for measuring the muon anomalous magnetic moment and electric dipole moment", M. Abe et al., Prog. Theor. Exp. Phys., 053C02, 2019.

[39] "Prototype Front-end ASIC for Silicon-strip Detectors of J-PARC Muon g-2/EDM Experiment", Y. Tsutsumi, T. Kishishita, Y. Sato, M. Shoji, T. Mibe, and M. M. Tanaka, PoS (TWEPP2018) 090.

[38] "Design of analog front-ends for the RD53 demonstrator chip", L. Gaioni and The RD53 Collaboration, PoS(Vertex2016)036, 2017.

[37] "Charge Collection Properties in an Irradiated Pixel Sensor built in a thick-film HV-SOI process", B. Hiti, V. Cindro, A. Gorisek, T. Hemperek, T. Kishishita, G. Kramberger, H. Krueger, I. Mandic, M. Mikuz, N. Wermes, Jour. Instr., vol. 12, P10020, 2017.

[36] "Characterization of Depleted Monolithic Active Pixel Detectors with High-Resistive CMOS Technology", T. Kishishita, T. Hemperek, P. Rymaszewski, T. Hirono, H. Krüger, N. Wermes, Nucl. Instr. Meth. A, vol. 824, p.417, 2016.

[35] "Charge Collection Properties of a Depleted Monolithic Active Pixel Sensor using a HV-SOI process", S. Fernandez-Perez, M. Backhaus, M. Fernandez-Garcia, C. Gallrapp, T. Hemperek, T. Kishishita, H. Krueger, M. Moll, C. Padilla and H. Pernegger, Jour. Instr., vol. 11, C01063, 2016.

[34] "Recent progress of RD53 Collaboration towards next generation Pixel Read-out Chip for HL-LHC", The RD53 collaboration including T. Kishishita, Jour. Instr., vol. 11, C12058, 2016.

[33] "65 nm Technology for HEP: Status and Perspective", P. Valerio and The RD53 Collaboration, PoS(Vertex2014)043, 2015.

[32] "DMAPS: a fully depleted monolithic active pixel sensor - analog performance characterization" M. Havranek, T. Hemperek, H. Krueger, Y. Fu, L. Germic, T. Kishishita, T. Obermann, and N. Wermes, Jour. Instr., vol. 10, P02013, 2015.

[31] "Depleted Monolithic Active Pixel Sensors with LF 150 nm CMOS Technology", T. Kishishita, T. Hemperek, H. Krüger, N. Wermes, Jour. Instr., vol. 10, C03047, 2015.

[30] "Characterization of Depleted Monolithic Active Sensor (DMAPS) Prototype"

T. Obermann, M. Havranek, T. Hemperek, F. Hügging, T. Kishishita, H. Krüger, C. Marinas, N. Wermes, Jour. Instr., vol. 10, C03049, 2015.

[29] “A Monolithic Active Pixel Sensor for ionizing radiation using 180nm HV-SOI process” T. Hemperek, T. Kishishita, H. Krueger, N. Wermes, Nucl. Instr. Meth. A, vol. 796, 8, 2015, [DOI:10.1016/j.nima.2015.02.052](https://doi.org/10.1016/j.nima.2015.02.052)

[28] “Radiation Hardness of a 180nm SOI Monolithic Active Pixel Sensor” S. Fernandez-Perez M. Backhaus, H. Pernegger, T. Hemperek, T. Kishishita, H. Krueger, N. Wermes, Nucl. Instr. Meth. A, vol. 796, 13, 2015.

[27] “Pixel front-end development in 65 nm CMOS technology” M. Havranek, T. Hemperek, T. Kishishita, H. Krueger, N. Wermes, Jour. Instr., vol. 9, C01003, 2014.

[26] “Recent Status of Front-end Electronics of DEPFET Pixel Detectors for Belle II Experiment” T. Kishishita et al., PoS(TIPP2014)181.

[25] “A 10 MS/s 8-bit charge-redistribution ADC for hybrid pixel applications in 65 nm CMOS”, T. Kishishita, T. Hemperek, H. Krueger, M. Koch, and L. Germic, and N. Wermes, Nucl. Instr. Meth. A, vol. 732, 506, 2013, [DOI:10.1016/j.nima.2013.05.192](https://doi.org/10.1016/j.nima.2013.05.192)

[24] “Prototype of a Gigabit Data Transmitter in 65 nm CMOS for DEPFET Pixel Detectors at Belle II” T. Kishishita, H. Krueger, T. Hemperek, M. Lemarenko, M. Koch, M. Gronewald, and N. Wermes, Nucl. Instr. Meth. A, vol. 718, 168, 2013, [DOI:10.1016/j.nima.2012.11.013](https://doi.org/10.1016/j.nima.2012.11.013)

[23] “DEPFET Active Pixel Detectors for a Future Linear e+e- Collider”, R. Casanova, et al. including T. Kishishita, IEEE Trans. Nucl. Sci., vol. 60, 1457, 2013.

[22] “The Data-Handling Processor for the Belle II Pixel Vertex Detector: efficiency optimization”, M. Lemarenko, M. Havranek, T. Hemperek, T. Kishishita, H. Krueger, and N. Wermes, Jour. Instr., vol. 7, C01069, 2012.

[21] “The data handling processor for the Belle II pixel vertex detector: Efficiency optimization” M. Lemarenko, M. Havranek, T. Hemperek, T. Kishishita, H. Krueger, JINST, 7 C01069, 2012.

[20] “Development of Low-Noise Front-end ASIC for Hybrid CdTe Pixel Detectors”, G. Sato, T. Kishishita, H. Ikeda, T. Sakumura, and T. Takahashi, IEEE Trans. Nucl. Sci., vol. 58, 1370, 2011, [DOI:10.1109/TNS.2011.2135865](https://doi.org/10.1109/TNS.2011.2135865)

[19] “Development of an SOI Analog Front-end ASIC for X-ray Charge Coupled Devices” T. Kishishita, G. Sato, H. Ikeda, T. Takahashi, T. Idehara, H. Tsunemi, and Y. Arai, Nucl. Instr. Meth. A, vol. 636, S143, 2011

[18] “Low-noise Analog ASIC for Silicon and CdTe Sensors”
T. Kishishita, G. Sato, H. Ikeda, T. Takahashi, T. Kiyuna, and Y. Mito, IEEE Trans. Nucl. Sci., vol. 57, 2971, 2010

[17] “Readout ASIC with SOI Technology for X-ray CCDs”
T. Kishishita, T. Idehara, H. Ikeda, H. Tsunemi, T. Takahashi, and Y. Arai, IEEE Trans. Nucl. Sci., vol. 57, 2359, 2010, [DOI:10.1109/TNS.2010.2049371](https://doi.org/10.1109/TNS.2010.2049371)

[16] “Development of a low-noise, two-dimensional amplifier array”
T. Kishishita, H. Ikeda, T. Sakumura, K. Tamura, and T. Takahashi, Nucl. Instr. Meth. A, vol. 598, 591, 2009

[15] “Evaluation of Low-noise Analog Front-end Application Specific Integrated Circuit for Solid-state Detectors”
T. Kishishita, H. Ikeda, T. Kiyuna, H. Yasuda, K. Tamura, and T. Takahashi, Jpn. J. Appl. Phys., vol. 47, 3423, 2008

[14] “Hard X-ray Detector (HXD) on Board Suzaku” T. Takahashi et al. including T. Kishishita, Publ. Astron. Soc. Japan, vol. 59, S35, 2007

[13] “In-Orbit Performance of the Hard X-ray Detector on Board Suzaku”
M. Kokubun et al. including T. Kishishita, Publ. Astron. Soc. Japan, vol. 59, S53, 2007

[12] “Development of a low-noise analog front-end ASIC for CdTe detectors”
T. Kishishita, H. Ikeda, T. Kiyuna, K. Tamura, K. Nakazawa, and T. Takahashi, Nucl. Instr. Meth. A, vol. 580, 1363, 2007

[11] “Initial performance of the two-dimensional 1024-channel amplifier array”
T. Kishishita, H. Ikeda, K. Tamura, T. Hiruta, K. Nakazawa, and T. Takahashi, Nucl. Instr. Meth. A, vol. 578, 218, 2007

[10] “Development of CdTe Pixel Detectors for Compton Camera”
S. Watanabe, T. Tanaka, K. Oonuki, T. Mitani, S. Takeda, T. Kishishita, K. Nakazawa, T. Takahashi, Y. Kuroda, and M. Onishi, Nucl. Instr. Meth. A, vol. 567, 150, 2006

[9] “Framework for a Geant4-Based Simulator of the Radiation Background and

Detector Responses of the Space X-ray Observatory Suzaku (Astro-E2)”
M. Ozaki, S. Watanabe, Y. Terada, T. Itoh, M. Kitsunezuka, T. Kishishita, Y. Ishisaki, T. Takahashi, IEEE Trans, Nucl. Sci., vol. 53, 1310, 2006

[8] “Development of the HXD-II Wideband All-sky Monitor Onboard Astro-E2”
K. Yamaoka et al. including T. Kishishita, IEEE Trans. Nucl. Sci., vol. 52, 2765, 2005

[Scientific articles]

[7] “Non-thermal Emission Properties of Northwestern Rim of the Supernova Remnant RX J0852-4622”
T. Kishishita, J. Hiraga, and Y. Uchiyama, Astro. & Astrophys., vol. 551, 132, 2013

[6] “X-ray Investigation of the Diffuse Emission around Plausible γ -ray Emitting Pulsar Wind Nubulae in Kookaburra Region”
T. Kishishita, A. Bamba, Y. Uchiyama, Y. Tanaka, and T. Takahashi, Astrophys. Jour., vol. 750, 162, 2012

[5] “Fermi Large Area Telescope view of the Core of the Radio Galaxy Centaurus A”
A. A. Abdo et al. including T. Kishishita, Astrophys. Jour., vol. 719, 1433, 2010

[4] “Study of the Spectral and Temporal Characteristics of X-ray Emission of the Gamma-ray Binary LS 5039 with Suzaku”
T. Takahashi, T. Kishishita, Y. Uchiyama, T. Tanaka, K. Yamaoka, D. Khangulyan, F. A. Aharonian, V. Bosch-Ramon, and J. A. Hinton, Astrophys. Jour., vol. 697, 591, 2009

[3] “Long-term Stability of Non-thermal X-ray Modulation in the Gamma-ray Binary LS 5039” T. Kishishita, T. Tanaka, Y. Uchiyama, and T. Takahashi, Astrophys. Jour., vol. 697, L1, 2009

[2] “The Fermi Gamma-ray Space Telescope Discoveries the Pulsar in the Young Galactic Supernova Remnant CTA 1” A. A. Abdo et al. including T. Kishishita, Science, vol. 322, 1193, 2008

[1] “Study of Nonthermal Emission from SNR RX J1713.7-3946 with Suzaku”
T. Tanaka et al. including T. Kishishita, Astrophys. Jour., vol. 685, 988, 2008