

Publication List

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Research and Publications

Papers Under Review

- [1] “Measurements of tropospheric ice clouds with a ground-based CMB polarization experiment, POLARBEAR”, S. Takakura et al., submitted to APJ, [arXiv:1809.06556]

Peer-Reviewed Publications

- [2] “ATHENA X-IFU 300 K-50 mK cryochain demonstrator cryostat”, T. Prouv, J.M. Duval, I. Charles, N.Y. Yamasaki, K. Mitsuda, T. Nakagawa, K. Shinozaki, C. Tokoku, R Yamamoto, **Y. Minami**, M. Le Du, J. Andre, C. Daniel, M. Linder, *Cryogenics*, Volume 89, 2018, Pages 85-94, <https://doi.org/10.1016/j.cryogenics.2017.11.009>
- [3] “A Measurement of the Cosmic Microwave Background *B*-Mode Polarization Power Spectrum at Sub-Degree Scales from 2 years of POLARBEAR Data”, P. A. R. Ade *et al.* [POLARBEAR Collaboration], *The Astrophysical Journal* 848, No.2, 121 (2017), <http://dx.doi.org/10.3847/1538-4357/aa8e9f>
- [4] “Search for squarks and gluinos in final states with jets and missing transverse momentum at $\sqrt{s} = 13$ TeV with the ATLAS detector”, ATLAS Collaboration (Aaboud, Morad *et al.*), *Eur. Phys. J. C* (2016) 76: 392, <https://doi.org/10.1140/epjc/s10052-016-4184-8>
- [5] “Observation of the Spatial Distribution of Gravitationally Bound Quantum States of Ultracold Neutrons and Its Derivation Using the Wigner Function”, G. Ichikawa, S. Komamiya, Y. Kamiya, **Y. Minami**, M. Tani, P. Geltenbort, K. Yamamura, M. Nagano, T. Sanuki, S. Kawasaki, M. Hino, and M. Kitaguchi, *Phys. Rev. Lett.* 112, 071101 (2014), <https://doi.org/10.1103/PhysRevLett.112.071101>

Proceedings and Thesis

- [6] “Cooling performance of Joule Thomson coolers in 300 K - 50 mK cryochain demonstration for ATHENA X-IFU”, Shinozaki. K, C. Tokoku, R. Yamamoto, **Y. Minami** et al., ICEC 2018 E04-098 (to be published, reviewed)

Doctor thesis

- [7] "Search for Supersymmetric Partners of Gluons in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$ ", Yuto Minami, Doctor thesis, The University of Tokyo, February 2016, https://www.icepp.s.u-tokyo.ac.jp/download/doctor/phD2016_minami.pdf

Conference and Seminar Presentations

International Conference Talks

- [8] "LiteBIRD: A future satellite mission on CMB polarization", **invited talk**, Yuto Minami on behalf of the LiteBIRD team, TPU-18, 2018 February, Nagpur, India
- [9] "Progress of LiteBIRD development", Yuto Minami on behalf of the LiteBIRD team, "Why does the Universe accelerate?-Exhaustive study and challenge for the future-FEB2018", 2018 February, Tohoku University, Japan
- [10] "LiteBIRD: A future satellite mission on CMB polarization", **invited talk**, Yuto Minami for the LiteBIRD team, Hidden Sector Physics and Cosmophysics, December 23rd, 2016, Kyoto University, Japan
- [11] "Inclusive searches for squarks and gluinos with the ATLAS detector", Yuto Minami on behalf of ATLAS collaboration, SUSY2015, August 27th, 2015, California, USA

National Conference Talks in Japan

- [12] "Studies of the superconducting detectors for the LiteBIRD satellite", **Y.Minami**, M.Hazumi, A.Suzuki, A.T.Lee, N.Kurninsky, S.Beckman, J.Hubmayr, and LiteBIRD Phase-A1 team, JPS 2018 Autumn Meeting, Matsumoto, September, 2018
- [13] "Developments of TES bolometer for LiteBIRD which mitigate cosmic-ray effects", **Y.Minami**, M.Hazumi, A.Suzuki, A.T.Lee, C.Kuo, N.Kurninsky, S.Beckman, J.Hubmayr, and LiteBIRD Phase-A1 team, JPS 2018 Annual Meeting, Noda, March, 2018
- [14] "Radiation tests and evaluation with simulation of the TES bolometers for LiteBIRD", **Y.Minami**, M.Hazumi, A.Suzuki, A.T.Lee, C.Kuo, N.Kurninsky, S.Beckman, J.Hubmayr, and LiteBIRD Phase-A1 team, JPS 2017 Autumn Meeting, Utsunomiya, September, 2017
- [15] "Radiation tests and simulations of the TES bolometers for LiteBIRD", **Y.Minami**, M.Hazumi, A.Suzuki, A.T.Lee, C.Kuo, N.Kurninsky, S.Beckman, A.Cukierman, J.Hubmayr, and LiteBIRD WG, JPS 2017 Annual Meeting, Osaka, March, 2017
- [16] "Search for supersymmetric partners of gluons at the LHC-ATLAS experiment Run2", **Y.Minami**, T.Yamanaka, S.Asai, JPS Autumn meeting, Osaka, September, 2015

- [17] “Gluino search in the LHC-ATLAS experiment Run2”, **Y.Minami**, N.Kanaya, T.Yamanaka, S.Asai, JPS 2015 Annual Meeting, Tokyo, March, 2015
- [18] “ATLAS LAr calorimeter upgrade (1): Construction and tests of a new signal processing system”, Y.Enari, N.Kanaya, J.Tanaka, K.Terashi, S.Hisajima, **Y.Minami**, Y.Minegishi, T.Yamanaka, S.Yamamoto, JPS 2014 Annual Meeting, Kanagawa, March, 2014
- [19] “A development of background estimation method for searching for supersymmetric particles at LHC-ATLAS experiment Run2”, **Y.Minami**, T.Yamanaka, S.Asai, JPS 2014 Annual Meeting, Kanagawa, March, 2014
- [20] “Observation of quantum state of UCNS under the earth’s gravitational field -Overview of apparatuses and their development-”, **Y.Minami**, G. Ichikawa, S.Komamiya, Y.Kamiya, S.Kawasaki, T.Sanuki, K.Yamamura, M.Nagano, M.Hino, JPS 2011 Annual Meeting, Niigata, March, 2011

Seminar Talks

- [21] “Search for Supersymmetric Partners of Gluons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV”, **invited talk**, **Y.Minami**, ISAS Astrophysics Colloquia, September 1st , 2016, ISAS, Japan