

Publications by Nikolay Anfimov

29 April 2021

REFEREED JOURNAL PAPERS

- 1) N. Anfimov, D. Fedoseev, A. Rybnikov, A. Selyunin, S. Sokolov, and A. Sotnikov, "Study of silicon photomultiplier performance at different temperatures," *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, vol. 997, p. 165162, 2021
- 2) N. Anfimov, A. Rybnikov, and A. Sotnikov, "Optimization of the light intensity for Photodetector calibration," *Nucl. Instrum. Meth. A*, vol. 939, pp. 61–65, 2019
- 3) N. Anfimov, V. Vorobel, Y. Kovalev, and P. Kodyš, "Scanning a silicon photomultiplier with a laser beam," *Physics of Particles and Nuclei Letters*, vol. 16, pp. 820–825, 11 2019
- 4) N. V. Anfimov and A. V. Rybnikov, "Measurement of time-resolution parameters of a silicon photomultiplier," *Physics of Particles and Nuclei Letters*, vol. 16, pp. 16–20, Jan 2019

REFEREED CONFERENCE PROCEEDINGS

- 5) N. Anfimov, A. Antoshkin, A. Aurisano, O. Samoylov, and A. Sotnikov, "JINR stand measurements for improvements in the NOvA detector simulation chain," *JINST*, vol. 15, no. 06, p. C06066, 2020
- 6) N. Anfimov and A. Selyunin, "Micropixel avalanche photodiodes and the possibility for their application in positron-emission tomography," *Physics of Particles and Nuclei Letters*, vol. 9, 12 2012
- 7) N. Anfimov *et al.*, "Novel micropixel avalanche photodiodes (MAPD) with super high pixel density," *Nucl. Instrum. Meth. A*, vol. 628, pp. 369–371, 2011
- 8) N. Anfimov, "Large photocathode 20-inch PMT testing methods for the JUNO experiment," vol. 12, pp. C06017–C06017, IOP Publishing, jun 2017

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- 9) N. Anfimov *et al.*, "Development of the Light Collection Module for the Liquid Argon Time Projection Chamber (LArTPC)," *JINST*, vol. 15, no. 07, p. C07022, 2020
- 10) Z. Sadygov, A. Ol'shevskii, N. Anfimov, T. Bokova, A. Dovlatov, V. Zhezher, Z. Krumshtein, R. Mekhtieva, R. Mukhtarov, M. Troitskaya, V. Chalyshev, I. Chirikov-Zorin, and V. Shukurova, "Microchannel avalanche photodiode with broad linearity range," *Technical Physics Letters*, vol. 36, pp. 528–530, Jun 2010
- 11) N. Anfimov *et al.*, "Tests of the module array of the ECAL0 electromagnetic calorimeter for the COMPASS experiment with the electron beam at ELSA," *Phys. Part. Nucl. Lett.*, vol. 12, no. 4, pp. 566–569, 2015
- 12) I. Chirikov-Zorin *et al.*, "Performance of the COMPASS II shashlyk calorimeter ECAL0 read out by SiPMs," *Nucl. Instrum. Meth. A*, vol. 936, pp. 141–143, 2019
- 13) N. Anfimov *et al.*, "Tests of the module array of the ECAL0 electromagnetic calorimeter for the COMPASS experiment with the electron beam at ELSA," *Phys. Part. Nucl. Lett.*, vol. 12, no. 4, pp. 566–569, 2015
- 14) M. Dziewiecki *et al.*, "Study of a 3 * 3 module array of the ECAL0 calorimeter with an electron beam at the ELSA," *J. Phys. Conf. Ser.*, vol. 587, no. 1, p. 012040, 2015
- 15) E. Guliyev *et al.*, "Investigation of gamma ray detection performance of thin LFS scintillator with MAPD readout," 2 2013

- 16) F. Ahmadov *et al.*, "Alpha particle detector based on micropixel avalanche photodiodes," *Phys. Part. Nucl. Lett.*, vol. 10, pp. 778–779, 2013
- 17) Z. Sadygov *et al.*, "Technology of manufacturing micropixel avalanche photodiodes and a compact matrix on their basis," *Phys. Part. Nucl. Lett.*, vol. 10, pp. 780–782, 2013
- 18) I. Typakin, B. Marinova, N. Anfimov, V. Chalyshev, I. Chirikov-Zorin, Z. Krumshtein, A. Olshevskiy, T. Rezinko, A. Rybnikov, and A. Selyunin, "NICA/MPD Electromagnetic Calorimeter based on Multipixel Avalanche Photodetector," *PoS*, vol. PhotoDet2015, p. 053, 2016
- 19) N. Anfimov *et al.*, "Beam test of Shashlyk EM calorimeter prototypes readout by novel MAPD with super high linearity," *Nucl. Instrum. Meth. A*, vol. 617, pp. 78–80, 2010
- 20) N. Anfimov, I. Chirikov-Zorin, Z. Krumshtein, R. Leitner, and A. Olchevski, "Test of micropixel avalanche photodiodes," *Nucl. Instrum. Meth. A*, vol. 572, pp. 413–415, 2007
- 21) Z. Sadygov *et al.*, "Microchannel avalanche photodiode with wide linearity range," *Sov. Tech. Phys. Lett.*, vol. 36, p. 528, 2010

PREPRINTS

- 22) N. Anfimov, D. Fedoseev, A. Rybnikov, A. Selyunin, S. Sokolov, and A. Sotnikov, "Study of Silicon Photomultiplier Performance at Different Temperatures," 5 2020

TECHNICAL NOTES

- 23) N. Anfimov *et al.*, "Tests of the ECAL modules in the T9 beam at CERN PS," tech. rep., COMPASS NOTE 2009-2 CERN, 02 2009
- 24) N. Anfimov *et al.*, "Tests of the various MAPD types at COMPASS," tech. rep., COMPASS NOTE 20011-2 CERN, 02 2011
- 25) N. Anfimov *et al.*, "Tests of the module array of the ECAL0 electromagnetic calorimeter for the COMPASS experiment with the electron beam at ELSA.," tech. rep., COMPASS NOTE 20014-4 CERN, 04 2014
- 26) N. Anfimov, O. Samoylov, and A. Sotnikov, "NOvA FEB Crosstalk measurements," tech. rep., NOvA DocDB-11405, Fermilab, 06 2014

COLLABORATION PAPERS

Co-author of more than 40 papers for the NOvA, COMPASS, JUNO, NICA collaborations