

Список публикаций Атанова Н.В.

- 1) N. Atanov et al., “Conceptual design of a Robotic Arm for the maintenance of the Read-Out Units of the Mu2e electromagnetic calorimeter”, Nucl.Instrum.Meth.A 1046 (2023).
- 2) F. Abdi et al., “Mu2e Run I Sensitivity Projections for the Neutrinoless $\mu^- \rightarrow e^-$ Conversion Search in Aluminum”, 2022, <https://arxiv.org/abs/2210.11380>
- 3) D. Pasciuto, N. Atanov, V. Baranov, L. Borrel, C. Bloise, J. Budagov, et al. , “Development, construction and qualification tests of the Mu2e electromagnetic calorimeter mechanical structures”, 2022, Contribution to:NuFact2021, 193
- 4) L. Morescalchi*, N. Atanov, V. Baranov, J. Budagov, Y.I. Davydov, V. Glagolev, et al., “Final Design and Current Status of the Mu2e Crystal Calorimeter”, PoS ICHEP2020 (2021).
- 5) N. Atanov et al., “Development, construction and tests of the Mu2e electromagnetic calorimeter mechanical structures”, Journal of Instrumentation, 17, 01(2022).
- 6) S. Xiao et al. “Beam test results of NDL Low Gain Avalanche Detectors (LGAD)”, Nuclear Instruments & Methods in Physics Research A 989, 164956, 2021.
- 7) X.Shi et al “Radiation campaign of HPK prototype LGAD sensors for the High-Granularity Timing Detector (HGTD)”, Nuclear Instruments & Methods in Physics Research A 979, 164382, 2020.
- 8) X. Yang, S. Alderweireldt, N. Atanov et al., “Layout and Performance of HPK Prototype LGAD Sensors for the High-Granularity Timing Detector“, Nuclear Instruments & Methods in Physics Research A 980 164379, 2020.
- 9) Y.Y.Fan, S.Alderweireldt, C.Agapopoulou, N.Atanov et al., “Radiation hardness of the low gain avalanche diodes developed by NDL and IHEP in China”, Nuclear Instruments & Methods in Physics Research A 984, 2020, 164608.
- 10) N. Atanov, V. Baranov, J. Budagov, D. Caiulo, F. Cervelli et al., “The Mu2e e.m. Calorimeter: Crystals and SiPMs Production Status”, IEEE Transactions on Nuclear Science 67, 6(2020).
- 11) N. Atanov, Y. Davydov, V. Glagolev, V. Tereshchenko, D. Nechaev, S. Ivanov, V. Jmerik, ”, IEEE Transactions on Nuclear Science 67, 7(2020).
- 12) N. Atanov, V. Baranov et al., “Construction status of the Mu2e crystal calorimeter”, Journal of Instrumentation, 15, 9 (2020).
- 13) N. Atanov, Y. Davydov, V. Glagolev, V. Tereshchenko, D. Nechaev, S. Ivanov, V. Jmerik, “A Scintillation Detector with a Barium Fluoride Crystal and a Photomultiplier with an AlGaIn-based Photocathode and Microchannel Plates”, Contribution to: NSS/MIC 2019, 1-3.
- 14) N.Atanov, V.Baranov, C.Bloise, J.Budagov et al., ”Design and status of the Mu2e crystal calorimeter”, Nuclear Instruments & Methods in Physics Research A, 958, 162140, 2020.
- 15) N. Atanov *et al.*, ”Design and test of the Mu2e undoped CsI + SiPM crystal calorimeter”, Nuclear Instruments & Methods in Physics Research A 936, 94 (2019).
- 16) N. Atanov *et al.*, ”The Mu2e calorimeter: Quality assurance of production crystals and SiPMs”, Nuclear Instruments & Methods in Physics Research A 936, 154 (2019).

- 17) N. Atanov *et al.*, “Mu2e calorimeter readout system”, Nuclear Instruments & Methods in Physics Research A 936, 333(2019).
- 18) N. Atanov *et al.*, “Design and status of the Mu2e crystal calorimeter”, IEEE Transactions on Nuclear Science 65, 2073(2018).
- 19) N. Atanov *et al.*, “Quality Assurance on Undoped CsI Crystals for the Mu2e Experiment” 65, 752(2018).
- 20) N. Atanov *et al.*, “The Mu2e undoped CsI crystal calorimeter”, Journal of Instrumentation 13, C02037 (2018).
- 21) N. Atanov *et al.*, “The calorimeter of the Mu2e experiment at Fermilab”, Journal of Instrumentation 12, C01061 (2017).
- 22) N. Atanov *et al.*, “The Mu2e crystal calorimeter”, Journal of Instrumentation 12, P09017 (2017).
- 23) N. Atanov *et al.*, “Measurement of time resolution of the Mu2e LYSO calorimeter prototype”, NIM A 812, 104(2016).
- 24) N. Atanov *et al.*, “Design and status of the Mu2e electromagnetic calorimeter”, NIM A 824, 695(2016).
- 25) N. Atanov *et al.*, “Energy and time resolution of a LYSO matrix prototype for the Mu2e experiment”, NIM A 824, 684(2016).
- 26) N. Atanov *et al.*, “Characterization of a 5×5 LYSO Matrix Calorimeter Prototype”, IEEE Transactions on Nuclear Science 63, 596(2016).
- 27) N. Atanov *et al.*, “Characterization of a prototype for the electromagnetic calorimeter of the Mu2e experiment”, Il Nuovo Cimento Della Societa Italiana di Fisica. C 39C, 267(2016).
- 28) ATLAS Collaboration, “Technical Design Report for the Phase-II Upgrade of the ATLAS Tile Calorimeter”, ATLAS-TDR-028, CERN-LHCC-2017-019, 2018, <https://cds.cern.ch/record/2285583/files/ATLAS-TDR-028.pdf>
- 29) N. Atanov *et al.*, “The Mu2e undoped CsI crystal calorimeter”, arXiv: 1801.02237, <https://arxiv.org/abs/1801.02237>.
- 30) N. Atanov *et al.*, “The Mu2e Calorimeter Final Technical Design Report”, arXiv: 1802.06341, <https://arxiv.org/abs/1802.06341>.
- 31) N. Atanov *et al.*, “Measurement of time resolution of the Mu2e LYSO calorimeter prototype”, arXiv:1509.04468, <http://arxiv.org/abs/1509.04468>.
- 32) Н.В. Атанов, А.В. Клецов, Л.В. Кузьмин, “Генератор хаоса СВЧ-диапазона с управляемым спектром”, Нелинейный мир, №4, 2008.
- 33) Ефремова Е.В., Атанов Н.В., Дмитриев Ю.А. «Генератор хаотических колебаний радиодиапазона на основе автоколебательной системы с 2,5 степенями свободы», Известия ВУЗов. Прикладная нелинейная динамика, т. 15, №1, 2007, С. 23–41.
- 34) Атанов Н.В., Дмитриев А.С., Ефремова Е.В., Кузьмин Л.В. Неавтономный генератор хаотических радиоимпульсов, Радиотехника и электроника, 2006, т. 51, №12, с. 1454-1464.

- 35) Атанов Н.В., Дмитриев А.С., Ефремова Е.В., Максимов Н.А. "Формирование хаотических радиоимпульсов в генераторе с внешним периодическим воздействием", Письма в ЖТФ, 2006. Т. 32. №15. С. 1-6.
- 36) Дмитриев А.С., Ефремова Е.В., Кузьмин Л.В., Атанов Н.В. Генерация потока хаотических импульсов в динамической системе с внешним (периодическим) воздействием, Радиотехника и электроника, 2006, Т.51, вып. 5, С.593-604.
- 37) Dmitriev A., Efremova E., Kuzmin L., Atanov N. «Forming pulses in non-autonomous chaotic oscillator». Int. J. Bifurcation and Chaos, 2007, Vol. 17, No. 10, pp. 3443-3448.