

## Список основных научных трудов и изобретений Колесников А.О.

- 1) N.A.Kuchinskiy, V.A.Baranov, V.N.Duginov, F.E.Zyazyulya\*, A.S.Korenchenko, A.O.Kolesnikov, N.P.Kravchuk, S.A.Movchan, A.I.Rudenko, V.S.Smirnov, N.V.Khomutov, V.A.Chekhovsky. **The use of a segmented cathode of a drift tube for designing a track detector with a high rate capability.** Instrum.Exp.Tech. 57 (2014) 5, pp.553-557.
- 2) Azorskiy, N. Glonti, L. Gusakov, Yu. Elsha, V. Enik, T. Kakurin, S. Kekelidze, V. Kislov, E. Kolesnikov, A. Madigozhin, D. Movchan, S. Polenkevich, I. Potrebenikov, Yu. Samsonov, V. Shkarovskiy, S. Sotnikov, S. Zinchenko, A. Danielsson, H. Bendotti, J. Degrange, J. Dixon, N. Lichard, P. Morant, J. Palladino, V. Gomez, F. Perez Ruggiero, G.Vergain, M. **A drift chamber with a new type of straws for operation in vacuum.** Nuclear Instruments and Methods in Physics Research. Nuclear Instruments and Methods in Physics Research A824(2016)569–570.
- 3) N. Azorskiy, A. Ceccucci, J. Bendotti, H. Danielsson, J. Degrange, N. Dixon, V. Elsha, T. Enik, L. Glonti, Y. Gusakov, S. Kakurin, V. Kekelidze, E. Kislov, A. Kolesnikov, M. Koval, P. Lichard, D. Madigozhin, J. Morant, S. Movchan, F. Perez Gomez, V. Palladino,; I. Polenkevich, Y. Potrebenikov, G. Ruggiero, V. Samsonov, S. Shkarovskiy and A. Sotnikov. Published by IOP Publishing for Sissa Medialab. 10.1088/1748-0221/11/02/C02064
- 4) N. Azorskiy, A. Ceccucci, J. Bendotti, H. Danielsson, J. Degrange, N. Dixon, V. Elsha, T. Enik, L. Glonti, Y. Gusakov S. Kakurin, V. Kekelidze, E. Kislov, A. Kolesnikov, M. Koval, P. Lichard, D. Madigozhin, J. Morant, S. Movchan, F.Perez Gomez, V. Palladino, I. Polenkevich, Y. Potrebenikov, G. Ruggiero, V. Samsonov, S. Shkarovskiy, A. Sotnikov . **The NA62 spectrometer acquisition system.** Journal of Instrumentation, ISSN:1748-0221, Изд: IOP Publishing
- 5) SHiP Collaboration (A. Akmete (Middle East Tech. U., Ankara) et al. The active muon shield in the SHiP experiment. JINST 12 (2017) no.05, P05011
- 6) Л.Глonti, Т.Еник, В.Кекелидзе, А.Колесников, Д.Мадигожин, Н.Молоканова, С.Мовчан, Ю.Потребеников, С.Шкаровский. **Longitudinal tension and mechanical stability of a pressurized straw tube.** E1-2017-20. Направлено в Nuclear Instruments and Methods in Physics Research Section A
- 7) A. Averyanov, A. Bazhazhin, V.F. Chepurnov, V.V. Chepurnov, G. Cheremukhina, S. Chernenko, O. Fateev, Yu. Kiriushin, A. Kolesnikov, A. Korotkova F. Levchanovsky, J. Lukstins, S. Movchan, A. Pilyar, S. Razin, A. Ribakov, V. Samsonov, S. Vereschagin, Yu. Zanevsky, S. Zaporozhets, V. Zruev (Dubna, JINR). **TPC status for MPD experiment of NICA project.** JINST 12 (2017) no.06, C06047
- 8) D. Baranov, S. Bazylev, M. Kapishin (Dubna, JINR) , K. Kapusniak (CERN) , V. Karjavine, S. Khabarov, A. Kolesnikov, E. Kulish, V. Lenivenko, A. Makankin A. Maksymchuk (Dubna, JINR) , B. Mehl, R.De Oliveira (CERN) , V. Palchik (Dubna, JINR) , A. Rodriguez (CERN) , I. Rufanov, A. Shutov, I. Slepnev, V. Slepnev, S. Vasiliev (Dubna, JINR). **GEM tracking system of the BM@N experiment.** Journal of Instrumentation, ISSN:1748-0221

- 9) N. I. Azorskii, Yu. V. Gusakov, V. V. Elsha, T. L. Enik, Yu. V. Ershov, V. D. Kekelidze, E. M. Kislov, A. O. Kolesnikov, D. T. Madigozhin, S. A. Movchan, I. A. Polenkevich, Yu. K. Potrebenikov, V. A. Samsonov, S. N. Shkarovskiy, A. N. Sotnikov, A. D. Volkov, and A. I. Zinchenko. **New Type of Drift Tubes for Gas-Discharge Detectors Operating in Vacuum: Production Technology and Quality Control.** Phys. Part. Nucl. Lett. 2017
- 10) N.A. Kuchinskiy, V.A. Baranov, V.N. Duginov, F.E. Zyazyulya, A.S. Korenchenko, A.O. Kolesnikov, N.P. Kravchuk, S.A. Movchan, A.I. Rudenko, V.S. Smirnov, N.V. Khomutov, V.A. Chekhovsky, A.S. Lobko, O.V. Misevich. **2-D straw detectors with high rate capability.** Письма в ЭЧАЯ, ISSN:1814-5957, eISSN:1814-5973, ОИЯИ 2017.
- 11) Sergei Bazylev, Mikhail Kapishin, Kacper Kapusniak, Vladimir Karjavine, Sergei Khabarov, Alexander Kolesnikov, Elena Kulish, Vasilisa Lenivenko, Alexander Makankin, Anna Maksymchuk, Bertrand Mehl, Rui De Oliveira, Vladimir Palchik, Gleb Pokatashkin, A. Rodriguez, Igor Rufanov, Alexander Shutov, Ilya Slepnev, Vyacheslav Slepnev, Sergei Vasiliev and Alexander Zinchenko. **Study of the GEM detector performance in BM@N experiment.** EPJ Web of Conferences, ISSN:2100-014X 2018.
- 12) V. A. Baranov, N. A. Bosak, L. E. Botay, V. N. Duginov, F. E. Zyazyulya, A. O. Kolesnikov, A. S. Korenchenko, N. P. Kravchuk, N. A. Kuchinskiy, A. S. Lobko, O. V. Misevich, S. A. Movchan, V. S. Smirnov, N. V. Khomutov, V. A. Chekhovsky. **A Tracker Prototype Based on Cathode Straw Tubes.** Instruments and Experimental Techniques, ISSN:0020-4412, eISSN:1608-3180. 2018.
- 13) A. M. Baldini, F. Berg, M. Biasotti, G. Boca, P. W. Cattaneo, G. Cavoto, F. Cei, M. Chiappini, G. Chiarello, C. Chiri, A. Corvaglia, A. de Bari, M. De Gerone, M. Francesconi, L. Galli, F. Gatti, F. Grancagnolo, M. Grassi, D. N. Grigoriev, M. Hildebrandt, Z. Hodge, K. Ieki, F. Ignatov, R. Iwai, T. Iwamoto, S. Kobayashi, P.-R. Kettle, W. **Search for lepton flavour violating muon decay mediated by a new light particle in the MEG experiment.** Eur.Phys.J. C (2020)
- 14) MEG Collaboration. **Towards a new search with the MEG II experiment:from design to commissioning.** Universe, ISSN:2218-1997, Изд:MDPI (2021)
- 15)V.G.BayevaK.G.AfanacievabS.A.MovchancA.GongadzebdV.V.AkulicheA.O.KolesnikovbN. KoviazinabL.GongadzebR.SotenskiibI.MinashvilibZ.Chubinidzebl.A.SvitofO.L.Orelovichg. **Improving the robustness of Micromegas detector with resistive DLC anode for the upgrade of the TPC readout chambers of the MPD experiment at the NICA collider.** *Nuclear Instruments and Methods in Physics Research*
- 15) A. Artikov, V. Baranov, A. Boikov, Yu. Budagov, I. Vasilyev, V. Glagolev, Yu. I. Davydov, N. Yershov, A. Kolesnikov, Yu. Kudenko, K. Limarev, A. Mefodiev, O. Mineev, A. Rudenko, V. Tereshchenko, S. Fedotov, M. Khabibullin & A. Khotyantsev. **Investigation of Light Collection in Scintillation Cubes of the SFGD Detector.** PHYSICS OF PARTICLES AND NUCLEI LETTERS Vol. 19 No. 6 2022

## **Список изобретений**

1) Мовчан С. А., Елша В. В., Ершов Ю. В., Шкаровский С. Н., Потребенников Ю. К., Кекелидзе В. Д., Кислов Е. М., Еник Т. Л., Азорский Н. И., Колесников А. О. Устройство для изготовления цилиндрических трубок для газонаполненных дрейфовых детекторов ионизирующего излучения. **Патент РФ № 2555693, 2014.**

2) Глonti Л., Кекелидзе В.Д., Потребеников Ю.К., Самсонов В. А, Еник Т.Л., Колесников А.О., Мовчан С.А., Сотников А.Н. Устройство для измерения местоположения проволок в газовых проволочных камерах. **Патент РФ №RU2602492, 2016**