Ing. Vasily Mikhaylov

Seznam publikací
List of publications

Publikace jako první autor
Publications as the first author

1. V. Mikhaylov, F. Guber, A. Ivashkin, A. Kugler, V. Kushpil, S. Morozov, O. Svoboda and P. Tlustý, *Characterisation of SiPM radiation hardness for application in hadron calorimeters at FAIR, CERN and NICA*, JINST **15**, C02005 (2020), arXiv:2001.10322, doi:10.1088/1748-0221/15/02/C02005

2. CBM, V. Mikhaylov *et al.*, *The very forward hadron calorimeter PSD for the future CBM@FAIR experiment*, EPJ Web Conf. **204**, 11004 (2019), doi:10.1051/epjconf/201920411004

3. V. Mikhaylov, F. Guber, A. Ivashkin, A. Kugler, V. Kushpil, S. Morozov, O. Svoboda and P. Tlustý, *Radiation hardness of Silicon Photomultipliers for CBM@FAIR, NA61@CERN and BM@N experiments*, Nucl. Instrum. Meth. A **912**, 241 (2018), doi:10.1016/j.nima.2017.11.066

4. V. Mikhaylov, A. Kugler, V. Kushpil, I. Selyuzhenkov and P. Tlusty, *Performance study of the anisotropic flow and reaction plane reconstruction in the CBM experiment*, J. Phys. Conf. Ser. **742**, 012023 (2016), doi:10.1088/1742-6596/742/1/012023

5. V. Mikhaylov *et al.*, *Performance of the forward calorimeters for heavy-ion experiments at FAIR, NICA, and CERN SPS*, PoS **EPS-HEP2015**, 281 (2015)

6. V. Mikhaylov, A. Kugler, V. Kushpil, S. Kushpil, O. Svoboda, P. Tlusty and V. P. Ladygin, *Radiation hardness tests of Avalanche Photodiodes for FAIR, NICA, and CERN SPS experiments*, PoS **EPS-HEP2015**, 282 (2015)

7. V. Mikhaylov, A. Kugler, V. Kushpil, P. Tlusty, S. Seddiki and I. Selyuzhenkov, *Particle flow and reaction plane reconstruction in the CBM experiment*, PoS **EPS-HEP2015**, 208 (2015)

8. V. Mikhaylov, A. Kugler, V. Kushpil, S. Seddiki, I. Selyuzhenkov and P. Tlusty, *Anisotropic flow and the reaction plane reconstruction with the CBM experiment*, in *Proceedings, 18th Conference of Czech and Slovak Physicists, with participation of Hungarian and Polish Physical Societies: Olomouc, Czech Republic, September 16-19, 2014*, pp. 75–76, 2015

Publikace ve spoluautorství
Publications in co-authorship

1. F. Guber, D. Finogeev, M. Golubeva, A. Ivashkin, A. Izvestnyy, N. Karpushkin, S. Morozov, A. Kugler, V. Mikhaylov and A. Senger, *Transverse and longitudinal segmented forward hadron calorimeters with SiPMs light readout for future fixed target heavy ion experiments*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **958**, 162728 (2020), Proceedings of the Vienna Conference on Instrumentation 2019, doi:https://doi.org/10.1016/j.nima.2019.162728

2. N. Karpushkin, D. Finogeev, M. Golubeva, F. Guber, A. Ivashkin, A. Izvestnyy, V. Ladygin, S. Morozov, A. Kugler, V. Mikhaylov and A. Senger, *The Projectile Spectator Detector for measuring the geometry of heavy ion collisions at the CBM experiment on FAIR*, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment **936**, 156 (2019), Frontier Detectors for Frontier Physics: 14th Pisa Meeting on Advanced Detectors, doi:https://doi.org/10.1016/j.nima.2018.10.054

3. V. Kushpil, V. Mikhaylov, V. P. Ladygin, A. Kugler, S. Reznikov, S. Kushpil, O. Svoboda and P. Tlusty, *Neutron irradiation study of silicon photomultipliers from different vendors*, Nucl. Instrum. Meth. **A845**, 114 (2017), doi:10.1016/j.nima.2016.06.101

4. V. Kushpil, V. Mikhaylov, A. Kugler, S. Kushpil, V. P. Ladygin, O. Svoboda and P. Tlusty, *Radiation hardness of semiconductor avalanche detectors for calorimeters in future HEP experiments*, J. Phys. Conf. Ser. **675**, 012039 (2016), doi:10.1088/1742-6596/675/1/012039

5. V. Kushpil, V. Mikhaylov, V. P. Ladygin, A. Kugler, S. Kushpil, O. Svoboda and P. Tlusty, *Investigation of avalanche photodiodes radiation hardness for baryonic matter studies*, Phys. Part. Nucl. Lett. **13**, 120 (2016), arXiv:1505.01297, doi:10.1134/S1547477116010143

6. V. Kushpil, V. Mikhaylov, S. Kushpil, P. Tlusty, O. Svoboda and A. Kugler, *Radiation hardness investigation of avalanche photodiodes for the Projectile Spectator Detector readout at the Compressed Baryonic Matter experiment*, Nucl. Instrum. Meth. **A787**, 117 (2015), doi:10.1016/j.nima.2014.11.071

7. S. Kushpil, V. Kushpil and V. Mikhaylov, *Setup for laboratory studies of the environmental conditions influence on the fixed charge state in silicon dioxide*, JINST **10**, C02045 (2015), doi:10.1088/1748-0221/10/02/C02045

Ukázkové publikace jako člen kolaborací CBM a HADES (celkem asi 60)
Example publications as a member of CBM and HADES collaborations (about 60 total)

1. CBM, P. Senger, *Astrophysics with heavy-ion beams*, Phys. Scripta **96**, 054002 (2021), arXiv:2102.08908, doi:10.1088/1402-4896/abebfe

2. CBM, V. Klochkov, *The Compressed Baryonic Matter Experiment at FAIR*, Nucl. Phys. A **1005**, 121945 (2021), doi:10.1016/j.nuclphysa.2020.121945

3. CBM, P. Senger, *Probing dense QCD matter in the laboratory—The CBM experiment at FAIR*, Phys. Scripta **95**, 074003 (2020), arXiv:2005.03321, doi:10.1088/1402-4896/ab8c14

4. HADES, J. Adamczewski-Musch *et al.*, *Two-pion production in the second resonance region in $\pi^- p$ collisions with the High-Acceptance Di-Electron Spectrometer (HADES)*, Phys. Rev. C **102**, 024001 (2020), arXiv:2004.08265, doi:10.1103/PhysRevC.102.024001

5. HADES, B. Ramstein *et al.*, *Time-Like Baryon Transitions studies with HADES*, EPJ Web Conf. **199**, 01008 (2019), doi:10.1051/epjconf/201919901008

6. HADES, J. Adamczewski-Musch *et al.*, *Strong absorption of hadrons with hidden and open strangeness in nuclear matter*, Phys. Rev. Lett. **123**, 022002 (2019), arXiv:1812.03728, doi:10.1103/PhysRevLett.123.022002

7. CBM, T. Ablyazimov *et al.*, *Challenges in QCD matter physics –The scientific programme of the Compressed Baryonic Matter experiment at FAIR*, Eur. Phys. J. **A53**, 60 (2017), arXiv:1607.01487, doi:10.1140/epja/i2017-12248-y