

Приложение 1

Директору ОИЯИ

академику РАН Г.В.Трубникову

от Гурчина Юрия Витальевича

Отделение №2 Физики на ускорительном комплексе Нуклотрон-NICA -
Научно-экспериментальный отдел
спиновой физики малонуклонных систем - Сектор №2
научный сотрудник

ЗАЯВЛЕНИЕ

Прошу Вас допустить меня к участию в выборах на замещение вакантной должности

Отделение №2 Физики на ускорительном комплексе Нуклотрон-NICA - Научно-экспериментальный отдел спиновой физики малонуклонных систем, научный сотрудник

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Научная биография (Curriculum Vitae)

Гурчин Юрий Витальевич

Отделение №2 Физики на ускорительном комплексе Нуклотрон-NICA - Научно-экспериментальный отдел спиновой физики малонуклонных систем, научный сотрудник

Дата и место рождения 05.03.1983 г Протвино

Образование- высшее ТГПУ г Тула 2003 г.


Профессиональная научная деятельность:

2002-2022гг работа по теме 1097: подготовка детектирующей аппаратуры и проведение экспериментов по изучению реакции dp -упругого рассеяния на внутренней мишени Нуклотрона в рамках проектов LNS и DSS в интервале энергий дейтрона 400-1000 МэВ, обработка экспериментальных данных, получение сечения реакции dp -упругого рассеяния. Модернизация установки на Внутренней Мишени Нуклотрона.

С 2019 года работа по теме 1065 над прототипами детекторов для SPD на NICA.

Научные труды за последние 3 года- 26

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20.03.2022

Список научных работ
за период с 2017 по 2022гг. (данные на 01.04.2022)

Публикации в рецензируемых журналах (зарубежные):

1. Investigation of the dp Breakup and dp Elastic Reactions at Intermediate Energies at Nuclotron
M.Janek et al., Few Body Systems, ISSN:ISSN 0177-7963, eISSN:1432-5411, Изд:Springer Wien, 58, 2, 40, 2017
2. The differential cross section in deuteron- proton elastic scattering at 500, 750 and 900 MeV/nucleon
A.A.Terekhin et al. (DSS Collaboration), European Physical Journal A, ISSN:ISSN: 1434-6001, eISSN:ISSN: 1434-601X, Изд:Springer, 55, 8, 129, 2019
3. The differential cross section in deuteron-proton elastic scattering at 500, 750 and 900 MeV/nucleon
Eur.Phys.J. A, 55, 8, 129, 2019
4. Study of the dp Elastic and dp Breakup Complementary Processes Using Polarized and Unpolarized Beam of Nuclotron
M.Janek et al. (DSS Collaboration), Few Body Systems, ISSN:ISSN 0177-7963, eISSN:1432-5411, Изд:Springer Wien, 63, 3, 2021

Публикации в рецензируемых журналах (русские):

1. Differential Cross Section for Elastic Deuteron–Proton Scattering at the Energy of 700 MeV per Nucleon
A.A.Terekhin et al., Physics of atomic nuclei, ISSN:1063-7788, eISSN:1562-692X, Изд:МАИК Nauka/Interperiodica, Pleiades Publishing, Ltd, 80, 6, 1061–1072, 2017
2. Calibration procedure of the dE–E detectors for dp breakup investigation at nuclotron
M. Janek et al. (DSS Collaboration), Phys.Part.Nucl.Lett., 15, 1, 76-82, 2018
3. Study of the 16-Channel Scintillation Detector Prototype with Silicon Photomultiplier Readout
A.V. Tishevskiy et al., Physics of atomic nuclei, ISSN:1063-7788, eISSN:1562-692X, Изд:МАИК Nauka/Interperiodica, Pleiades Publishing, Ltd, 83, 12, 1691-1694, 2020

Статьи в научных сборниках и периодических изданиях:

1. Deuteron beam polarization measurement at 270 MeV at Nuclotron internal target
Ya.T.Skhomenko et al. (DSS Collaboration), EPJ Web Conf., Springer, 201, 04005, 2019

Материалы научных мероприятий (международные, приглашенный доклад):

1. XXIII International Baldin Seminar on High Energy Physics Problems, dedicated to the 90-th anniversary of A.M.Baldin -- ISHEPP-2016 (September 19 - 24, 2016), JINR, Dubna, Russia
Investigation of reactions using polarized and unpolarized deuteron beam at Nuclotron: current status and perspectives, M.Janek et al., 01028, EDP Sciences - Web of Conferences 17, avenue du Hoggar Parc d`activités de Courtaboeuf 91944 Les Ulis Cedex France, EPJ Web.Conf., 138, 2017
2. XVII WORKSHOP ON HIGH ENERGY SPIN PHYSICS (DSPIN-17), Bogoliubov Laboratory of Theoretical Physics of the Joint Institute for Nuclear Research, Dubna, Russia
First results on the energy scan of the vector A_y and tensor A_{yy} and A_{xx} analyzing powers in deuteron- proton

elastic scattering at Nuclotron, V.P.Ladygin et al., 012007, IOP Publishing, Journal of Physics: Conf. Series, 938, 2017

3. XVII WORKSHOP ON HIGH ENERGY SPIN PHYSICS (DSPIN-17), Bogoliubov Laboratory of Theoretical Physics of the Joint Institute for Nuclear Research, Dubna, Russia
Dp breakup reaction investigation using polarized and unpolarized deuteron beam, M.Janek et al., 012005, IOP Publishing, Journal of Physics: Conf. Series, 938, 2017

4. The XXIV International Baldin Seminar on High Energy Physics Problems
Energy dependence of the vector A_y and tensor A_{yy} and A_{xx} analyzing powers in deuteron-proton elastic scattering at large scattering angles, V.P.Ladygin et al. (DSS Collaboration), 01019, EDP Sciences, EPJ Web of Conferences, 204, 2019

5. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
Deuteron analyzing powers in dp- elastic scattering at large transverse momenta, V.P.Ladygin et al. (DSS Collaboration), 012039, IOP Publishing, Journal of Physics: Conference Series, 1435, 1742-6596, 2020

Материалы научных мероприятий (международные, устный доклад):

1. ,ISBN 978-5-9530-0526-514th International Workshop Relativistic Nuclear Physics: from Hundreds of MeV to TeV (RNP`2019), , Stara Lesna, Slovak Republic
Latest spin studies of DSS collaboration, M. Janek et al., 130-135, JINR, Proceedings of the International Workshop - Relativistic Nuclear Physics: from Hundreds of MeV to TeV, 2019

2. ,ISBN 978-5-9530-0526-514th International Workshop Relativistic Nuclear Physics: from Hundreds of MeV to TeV (RNP`2019), , Stara Lesna, Slovak Republic
Study of the deuteron analyzing powers in dp-elastic scattering at the energy of 800 MeV at the Nuclotron, O. Mezhenka et al., 200-205, JINR, Proceedings of the International Workshop - Relativistic Nuclear Physics: from Hundreds of MeV to TeV, 2019

3. The XXIV International Scientific Conference of Young Scientists and Specialists (AYSS-2020), Joint Institute for Nuclear Research, Dubna, Russia
New proton polarimeter at the Nuclotron, 2020

Материалы научных мероприятий (международные, секционный доклад):

1. XVII WORKSHOP ON HIGH ENERGY SPIN PHYSICS (DSPIN-17), Bogoliubov Laboratory of Theoretical Physics of the Joint Institute for Nuclear Research, Dubna, Russia
First results on the measurements of the proton beam polarization at internal target at Nuclotron, V.P.Ladygin et al., 012008, IOP Publishing, Journal of Physics: Conf. Series, 938, 2017

2. XVII WORKSHOP ON HIGH ENERGY SPIN PHYSICS (DSPIN-17), Bogoliubov Laboratory of Theoretical Physics of the Joint Institute for Nuclear Research, Dubna, Russia
Measurement of the deuteron beam polarization at internal target at Nuclotron for DSS experiment, Ya.T.Skhomenko et al., 012022, IOP Publishing, Journal of Physics: Conf. Series, 938, 2017

3. XXIII International Baldin Seminar on High Energy Physics Problems, dedicated to the 90-th anniversary of A.M.Baldin -- ISHEPP-2016 (September 19 - 24, 2016), JINR, Dubna, Russia
The differential cross section for the dp-elastic scattering at 500 to 900 MeV/nucleon, A.Terekhin et al., 03012, EDP Sciences - Web of Conferences 17, avenue du Hoggar Parc d`activit es de Courtaboeuf 91944 Les Ulis Cedex France, EPJ Web.Conf., 138, 2017

4. The XXIII International Scientific Conference of Young Scientists and Specialists (AYSS-2019), JINR, OMUS, Dubna, Russia, JINR, Dubna, Russia
Measurement of the vector and tensor analyzing powers for dp-elastic scattering at the energy of 800 MeV, O.Mezhenska et al. (DSS Collaboration), 030011, AIP Publishing, AIP Conf.Proc., 2163, 2019
5. 8th International Conference on Quarks and Nuclear Physics - QNP2018, , Tsukuba, Ibaraki, Japan
Spin Studies of the Short-Range Correlations with Polarized Beams at JINR-Nuclotron, V.P.Ladygin et al. (DSS Collaboration), 023023, The Physical Society of Japan, JPS Conf. Proc., 26, 2435-3892, 2019
6. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
Upgrade of the polarimeter at the Internal Target Station at the Nuclotron, А.А.Терехин, 012051, J.Phys.Conf.Ser., 1435, 1, 2019
7. 23rd International Symposium Spin Physics and Related Phenomena (SPIN2018), Universita degli Studi di Ferrara, Ferrara, Italy
Deuteron and proton beams polarimetry at internal target at JINR Nuclotron, V.P.Ladygin et al. (DSS Collaboration), 150, Proceedings of Science, Italy, PoS SPIN2018, 2019
8. 23rd International Symposium Spin Physics and Related Phenomena (SPIN2018), Universita degli Studi di Ferrara, Ferrara, Italy
Spin studies of the short-range correlations at Nuclotron, V.P.Ladygin et al. (DSS Collaboration), 023, Proceedings of Science, Italy, PoS SPIN2018, 2019
9. XXIV International Baldin Seminar on High Energy Physics Problems: Relativistic Nuclear Physics and Quantum Chromodynamics (ISHEPP`2018), JINR, Dubna, Russia
Dp breakup reaction investigation under specific kinematic configurations at ITS of the Nuclotron, M.Janek et al. (DSS Collaboration), 10012, EDP Sciences, EPJ Web of Conferences, 204, 2019
10. XXIV International Baldin Seminar on High Energy Physics Problems: Relativistic Nuclear Physics and Quantum Chromodynamics (ISHEPP`2018), JINR, Dubna, Russia
The differential cross section for dp-elastic scattering at 500-900 MeV/n and large transverse momenta, A.Terekhin et al. (DSS Collaboration), 10010, EDP Sciences, EPJ Web of Conferences, 204, 2019
11. XXIV International Baldin Seminar on High Energy Physics Problems: Relativistic Nuclear Physics and Quantum Chromodynamics (ISHEPP`2018), JINR, Dubna, Russia
Deuteron beam polarimeter at Nuclotron internal target, Ya.T.Skhomenko et al. (DSS Collaboration), 10002, EDP Sciences, EPJ Web of Conferences, 204, 2019
12. XXIV International Baldin Seminar on High Energy Physics Problems: Relativistic Nuclear Physics and Quantum Chromodynamics (ISHEPP`2018), JINR, Dubna, Russia
Study of the deuteron analyzing powers in dp elastic scattering at the energy of 800 MeV, O.Mezhenska et al. (DSS Collaboration), 10001, EDP Sciences, EPJ Web of Conferences, 204, 2019
13. The 24th European Conference on Few-Body Problems in Physics (EFB24), University of Surrey, Guildford, United Kingdom
Latest results concerning short range correlations obtained in the dp elastic and dp breakup processes at Nuclotron, JINR, M.Janek et al. (DSS Collaboration), 11, SciPost Phys.Proc., 3, 2020
14. LC2019 - QCD on the light cone: from hadrons to heavy ions, Ecole Polytechnique, Palaiseau, France
Angular and energy dependence of A_y , A_{yy} and A_{xx} analyzing powers in dp elastic scattering and dp breakup reaction investigation, M.Janek et al. (DSS Collaboration), 048, Proceedings of Science, PoS LC2019, 374, 2020

15. LXIX International Conference on Nuclear Physics "Nucleus 2019", Joint Institute for Nuclear Research, Dubna, Russia
Studying the Differential Cross Section of Elastic Deuteron–Proton Scattering at 1–2 GeV, A.A. Terekhin et al., 747-750, Pleades Publishing, Bull.Russ.Acad.Sci.Phys., 84, 6, 1062-8738, 2020
16. 5th International Conference on Particle Physics and Astrophysics (ICPPA 2020), National Research Nuclear University "MEPhI", Moscow, Russia
Development of the scintillation detector prototypes with SiPM readout for SPD at NICA, A.V. Tishevskiy et al., 012051, IOP Science, J.Phys.Conf.Ser., 1690, 1742-6588, 2020
17. ,978-80-89855-13-1, 20th Conference of Czech and Slovak Physicist, Jan Mlynar, Miroslav Cieslar, Czech Republic, Prague
SHORT-RANGE CORRELATION INVESTIGATION IN DEUTERON INDUCED REACTIONS, M.Janek et al. (DSS Collaboration), 147-148, EQUILIBRIA, Koshice, Proceedings of the 20th Conference of Czech and Slovak Physicist, 7-10 September 2021, Prague, Czech Republic, 2020
18. XXII International Conference on Few-Body Problems in Physics (FB22), Universite Caen, IUPAP, CNRS, CEA, Caen, France
Experimental Study of Few Nucleon Correlations Using Deuteron Beam at Nuclotron, M.Janek et al. (DSS Collaboration), 493-496 |, Springer, Springer Proc.Phys., 238, 0930-8989, 2020
19. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
Upgrade of the polarimeter at the Internal Target Station at the Nuclotron, A.A.Terekhin et al. (DSS Collaboration), 012051, IOP Publishing, Journal of Physics: Conference Series, 1435, 1742-6596, 2020
20. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
The results of the deuteron beam polarization measurement for dp-elastic scattering reaction at 270 MeV energy, Ya.T.Skhomenko et al. (DSS Collaboration), 012050, IOP Publishing, Journal of Physics: Conference Series, 1435, 1742-6596, 2020
21. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
Study of the polarization observables in dp- > dp reaction at the deuteron energy of 800 MeV, O.Mezhenska et al. (DSS Collaboration), 012042, IOP Publishing, Journal of Physics: Conference Series, 1435, 1742-6596, 2020
22. XVIII Workshop on High Energy Spin Physics DSPIN-19, ОИЯИ, Дубна, Россия
Cross section investigation in dp breakup reaction at the intermediate energies, M.Janek et al. (DSS Collaboration), 012013, IOP Publishing, Journal of Physics: Conference Series, 1435, 1742-6596, 2020
23. The XXIV International Scientific Conference of Young Scientists and Specialists (AYSS-2020), Joint Institute for Nuclear Research, Dubna, Russia
Calibration procedure of the dE-E detectors for Deuteron breakup reaction investigation at intermediate energies at nuclotron, O.Mezhenska et al.(DSS Collaboration), 070002, AIP, AIP Conference Proceedings, 2377, 2021
24. The XXIV International Scientific Conference of Young Scientists and Specialists (AYSS-2020), Joint Institute for Nuclear Research, Dubna, Russia
Analyzing power in Quasi-elastic proton- proton scattering at 500 and 650 MeV/ nucleon, I.S.Volkov et al. (DSS Collaboration), 030020, AIP, AIP Conference Proceedings, 2377, 2021
25. The XXIV International Scientific Conference of Young Scientists and Specialists (AYSS-2020), Joint Institute for Nuclear Research, Dubna, Russia
Study of the 16-channel scintillation detector prototype with silicon photomultipliers readout, A.V. Tishevsky et al. (DSS Collaboration), 030017, AIP, AIP Conference Proceedings, 2377, 2021

26. The XXIV International Scientific Conference of Young Scientists and Specialists (AYSS-2020), Joint Institute for Nuclear Research, Dubna, Russia
New proton polarimeter at the Nuclotron, A.A.Terekhin et al. (DSS Collaboration), 030016, AIP, AIP Conference Proceedings, 2377, 2021

Электронные публикации:

1. Conceptual design of the Spin Physics Detector
V.M. Abazov et al. (SPD proto Collaboration), e-Print: 2102.00442 [hep-ex], 2021

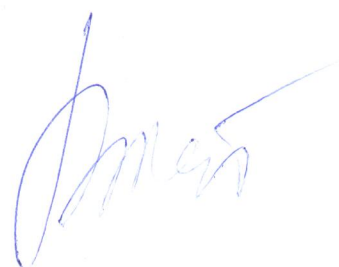
Препринты:

1. Дифференциальное сечение реакции dp - упругого рассеяния при энергии 700 МэВ/нуклон
P1-2017-33, 12, А.А.Терехин и др., Изд.отдел ОИЯИ, 2017

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