

LXXIV International conference Nucleus-2024: Fundamental problems and applications

понедельник, 1 июля 2024 г. - пятница, 5 июля 2024 г.

**Dubna, Russia
Program**

Table of contents

понедельник, 1 июля 2024 г.	1
Opening	1
Plenary	1
Coffee break	1
Plenary	1
Lunch	1
Experimental and theoretical studies of nuclear reactions	1
Nuclear structure: theory and experiment	1
Photo	2
Poster session	2
Welcome party	2
вторник, 2 июля 2024 г.	3
Applications of nuclear methods in science, technology, medicine and radioecology	3
Experimental and theoretical studies of nuclear reactions	3
Experimental and theoretical studies of nuclear reactions	3
Heavy ion collisions at Intermediate and high energies	4
Nuclear structure: theory and experiment	4
Coffee break	4
Applications of nuclear methods in science, technology, medicine and radioecology	4
Experimental and theoretical studies of nuclear reactions	5
Experimental and theoretical studies of nuclear reactions	5
Heavy ion collisions at Intermediate and high energies	6
Nuclear structure: theory and experiment	6
Lunch	6
Applications of nuclear methods in science, technology, medicine and radioecology	6
Experimental and theoretical studies of nuclear reactions	7
Experimental and theoretical studies of nuclear reactions	7
Heavy ion collisions at Intermediate and high energies	7
Coffe break	8
Applications of nuclear methods in science, technology, medicine and radioecology	8
Experimental and theoretical studies of nuclear reactions	8
Experimental and theoretical studies of nuclear reactions	8
Heavy ion collisions at Intermediate and high energies	9

среда, 3 июля 2024 г.	10
Heavy ion collisions at Intermediate and high energies	10
Neutrino physics and nuclear astrophysics	10
Nuclear structure: theory and experiment	10
Coffee break	11
Heavy ion collisions at Intermediate and high energies	11
Neutrino physics and nuclear astrophysics	11
Nuclear structure: theory and experiment	11
Lunch	11
Design of new experimental facilities	12
Neutrino physics and nuclear astrophysics	12
Nuclear structure: theory and experiment	12
Coffee break	13
Design of new experimental facilities	13
Neutrino physics and nuclear astrophysics	13
Nuclear structure: theory and experiment	13
Poster session	13
четверг, 4 июля 2024 г.	14
Plenary	14
Coffee break	14
Plenary	14
Excursion along the Volga River by boat	14
Banquet	14
пятница, 5 июля 2024 г.	15
Plenary	15
Coffee break	15
Plenary	15
Lunch	15
Experimental and theoretical studies of nuclear reactions	15
Closing	15

понедельник, 1 июля 2024 г.

Opening - Conference Hall (09:30 - 10:00)

Plenary - Conference Hall (10:00 - 11:30)

time	[id] title	presenter
10:00	[366] Status and development plan of accelerator complex FLNR	VASILY, Semin
10:30	[367] Synthesis and study of the decay properties of isotopes of superheavy elements Ds and Lv	KOVRIZHNYKH, Nikita
11:00	[364] Studies of light exotic nuclei at FLNR JINR	GRIGORENKO, Leonid

Coffee break - Buffet (11:30 - 12:00)

Plenary - Conference Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[62] Quantum shells in nuclei and beyond	NESTERENKO, Valentin
12:30	[204] Heavy ion linac for nuclear physics.	KULEVOY, TIMUR
13:00	[90] Ab initio расчёты структуры легких ядер и ядерно-физический эксперимент	TCHUVIL'SKY, Yury
13:30	[370] Российские высокоскоростные (125-1000 МВьб/с) многоканальные диджитайзеры	ПАШКОВ, А.В.

Lunch (14:00 - 15:00)

Experimental and theoretical studies of nuclear reactions: Reactions with light nuclei - Conference Hall (15:00 - 16:35)

time	[id] title	presenter
15:00	[226] Dimensions of ^6Li in low-lying states	DEMYANOVA, Alla
15:20	[227] Search for halo structures in ^8Li	DANILOV, Andrey
15:35	[19] Population of tetraneutron continuum in reactions of ^8He on deuterium	MUZALEVSKII, Ivan
15:50	[131] Investigation of spectral structure of ^{11}Be in breakup reactions within quantum-quasiclassical approach	VALIOLDA, Dinara
16:05	[152] Measurement of angular distributions of differential cross sections of products of the $^7\text{Li}+^{10}\text{B}$ reaction	STUKALOV, Sergei
16:20	[295] MICROSCOPIC ANALYSIS OF ELASTIC SCATTERING AND TRANSFER REACTION IN THE $^7\text{Li}+^{10}\text{B}$ COLLISION AT ENERGY 58 MEV	ZEMLYANAYA, Elena

Nuclear structure: theory and experiment - Blokhintsev Hall (15:00 - 16:35)

time	[id] title	presenter
15:00	[20] DYNAMICS OF YRAST BANDS UP TO MAXIMUM KNOWN SPINS I N EVEN THORIUM NUCLEI	EFIMOV, Aleksandr
15:20	[108] АНАЛИЗ МЕЖПОЛОСНЫХ И ВНУТРИПОЛОСНЫХ ПЕРЕХОДОВ СОСТОЯНИЙ ПОЛОЖИТЕЛЬНОЙ ЧЕТНОСТИ ИЗОТОПОВ $^{182,184}\text{W}$	USMANOV, Pazlitdin

15:40	[362] Excitation spectra and electromagnetic transitions between low-lying nonrotational states	BEZBAKH, Anna
15:55	[372] Three-particle binding energy and wave function of 14A nuclei based on the HH method	IRGAZIEV, B. F.
16:15	[359] Исследование структуры нижайших квадрупольных возбуждений в изотопах Ge	MARDYBAN, Evgenii

Photo (16:35 - 17:00)

Poster session - Hall (17:00 - 18:30)

Welcome party - Buffet (18:30 - 20:30)

вторник, 2 июля 2024 г.**Applications of nuclear methods in science, technology, medicine and radioecology: Radiation therapy - Conference****Hall (09:30 - 11:30)**

time	[id] title	presenter
09:30	[77] Increasing The Accuracy Of Dose Delivery To CTV During PBS Proton Therapy	KISELEV, Vasilii
09:45	[150] RESEARCH OF THE FLASH EFFECT AT THE PROTON ACCELERATOR OF INR RAS	AKULINICHEV, Sergey
10:00	[329] ASSESSMENT OF SOME UNACCOUNTED CONTRIBUTIONS TO THE ABSORBED DOSE DURING RADIATION THERAPY	SHCHERBAKOV, Alexey
10:15	[171] Эксперименты по облучению биологических моделей в протонном пучке	YAKOVLEV, Ivan
10:30	[332] Technological state and prospects of production of modern X-ray diagnostic systems	POPOV, Andrey SOSNOV, Dmitry
10:45	[192] Анализ клеточной гибели и пролиферативной активности клеточных культур при облучении протонами в режиме флэш	MARTYNOVA, Valeriia
11:00	[231] CONTRIBUTION OF PHOTOELECTRIC EFFECT TO THE DOSE ENHANCEMENT FACTOR IN PHOTON ACTIVATION THERAPY	RASULOVA, Dildora
11:15	[267] DOSES OF INTERNAL HUMAN RADIATION FROM RADON DURING HEATING OF RESIDENTIAL BUILDINGS WITH NATURAL GAS IN THE CONDITIONS OF THE NORTH	PETROVA, Kristina

Experimental and theoretical studies of nuclear reactions - Blokhintsev Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[209] EMISSION OF HIGH-ENERGY 4He AND $6,7\text{Li}$ NUCLEI IN NUCLEAR REACTION OF 56Fe IONS ON 238U TARGET	MASLOV, Vladimir
09:50	[201] Resonance amplification of nuclear reaction $X(a,b)Y$ near the $a+X$ channel threshold	MELEZHIK, Vladimir
10:10	[276] Neutron transfer in reactions $7\text{Li}, 48\text{Ca} + 197\text{Au}$ at above-barrier energies	SHAKHOV, Aleksei
10:30	[326] SYMMETRY BREAKING EFFECTS IN THE INTERACTION OF SLOW NEUTRONS WITH LEAD NUCLEUS	ОПРЕА, Иоан
10:45	[303] Quenching factor of spectroscopic factors extracted from single-nucleon transfer reactions	ZHU, Hongyu
11:05	[14] ASYMPTOTIC NORMALIZATION COEFFICIENTS FOR $^{16}\text{O}+n \rightarrow ^{17}\text{O}$ FROM THE $^{16}\text{O}(d,p)^{17}\text{O}$ REACTION	IKROMKHONOV, Erkinjon

Experimental and theoretical studies of nuclear reactions: Fission - Conference Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[182] Оценка коэффициентов корреляции спинов фрагментов двойного деления ядер	PISKLYUKOV, Andrey
09:50	[297] Influence of angular momentum on Mass-Total Kinetic Energy distribution of fragments formed in the $^{24}\text{Mg} + ^{232}\text{Th}$ and $^{48}\text{Ca} + ^{208}\text{Pb}$ reactions	S, Sanila

10:10	[232] Deviations from A.Bohr's formula for fission fragments angular distributions with taking into account zero wriggling-vibrations of the fissile nucleus	TITOVA, Larisa
10:30	[48] New indications and evidences of multibody partitions of $^{252}\text{Cf(sf)}$	PYATKOV, Yury
10:50	[236] Развитие квантовой теории спонтанного двойного деления	LYUBASHEVSKY, Dmitrii
11:10	[271] EXPERIMENTAL STUDY OF MODAL FISSION OF EXCITED HEAVY NUCLEI	ITKIS, Yulia

Heavy ion collisions at Intermediate and high energies - Conference Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[86] DOUBLE POLARIZED DEUTERON-DEUTERON SCATTERING AND TEST OF T-INVARIANCE	UZI KOV, Yury
09:50	[101] Splitting effect of light nuclei momentum distributions at fragmentation of iron ions with energy of 230 MeV/nucleon.	MARTEMIANOV, M. A.
10:10	[21] Study of correlations of charged particles in Xe+W interactions at an energy of 3.0 GeV/nucleon.	LEGOSTAEVA, Ksenia
10:30	[153] Дибарионы: поиск и теоретические оценки	DOROSHKEVICH, Eugene
10:50	[268] Fragmentation features of Be, B, C nuclei in nuclear track emulsions	ARTEMENKOV, Denis
11:10	[68] Production of protons, deuterons, tritons in argon-nucleus interactions at 3.2 AGeV	KOVACHEV, Lalyo

Nuclear structure: theory and experiment: Few-body systems - Second floor Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[113] Lattice system of two fermions with first and second nearest-neighboring-site interactions	MOTOVILOV, Alexander K.
09:50	[161] Self-consistent evolution: new neural network approach to bound state calculations	ROUDNEV, Vladimir
10:10	[51] Виртуальные и резонансные состояния в трёхчастичных системах $d-\mu^-$, $d-\mu^-d$	EGOROV, Mikhail
10:25	[91] Induced dipole interaction in scattering of positrons and electrons off light atomic target	YAKOVLEV, Sergey
10:40	[115] Single ionization of helium atom by protons in the parabolic quasi-Sturmian approach	POPOV, Yuri
11:00	[112] Quantum control of molecular alignment and orientation by two-color trapezoidal laser pulses	KOVAL, Eugene
11:15	[316] Diffractionless solutions for the bound states of the model 1D three-body problem	MALYKH, Anastasiya

Coffee break - Buffet (11:30 - 12:00)

Applications of nuclear methods in science, technology, medicine and radioecology: Detectors/Therapy - Conference Hall (12:00 - 14:00)

time	[id] title	presenter
------	------------	-----------

12:00	[168] SILICON PIXEL SENSORS FOR DETERMINATION OF CHARACTERISTICS OF PROTON BEAMS IN THE ENERGY RANGE 100 – 1000 MeV FOR THEIR USE IN TRACKING DETECTORS	PETROV, Vitalii
12:15	[170] Оценка точности дозиметрии протонов с плёночными детекторами	MERZLIKIN, Grigorii
12:30	[172] Позиционно-чувствительный черенковский монитор мощных пучков протонов	GAVRILOV, Yuri
12:45	[324] Study of the yield of positron emitters after irradiation with 100 and 200 MeV protons of natural calcium targets	ADONYEV, Stepan
13:00	[315] Measurement of the Photo-peak Efficiency and Covariance Analysis of γ -Ray Detectors of TANGRA Project using ^{22}Na , ^{60}Co , ^{133}Ba , ^{137}Cs , ^{152}Eu , ^{228}Th and Comparison with the Geant4 and MCNP Simulation.	DAS, Pretam Kumar
13:15	[284] Determination of the Parameters of Prototype of “Gamma” Installation at the IREN Facility	YERGASHOV, Almat
13:30	[59] Project BECQUEREL at portal of nuclear knowledge BelNET	SYTOVA, Svetlana
13:45	[102] Estimation of biological protection at the new cyclotron complex DC-140 using Monte Carlo method	BOLATKAZYEV, Yeldos

Experimental and theoretical studies of nuclear reactions - Blokhintsev Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[347] Роль динамики при описании нейтронных множественностей в спонтанном делении трансфермиевых ядер	ANDREEV, Alexander
12:20	[343] Quantum mechanical analysis of angular oscillations at scission point: Implications for fission fragment angular momentum generation	RAHMATINEJAD, Azam
12:40	[346] Low-energy incomplete fusion: A systematic study of entrance channel parameters	JASHWAL, Anuj Kumar
13:00	[356] Validity analysis of gamma-ray strength function models for radiative capture reactions of heavy nuclei	NASRI NASRABADI, Mehdi
13:20	[149] TOTAL REACTIONS CROSS SECTIONS MEASURING METHODS	SOBOLEV, Yuri
13:40	[155] Influences of the isospin-asymmetry and nuclear skin thickness on the structure and reactions of heavy nuclei	SEIF, Walaa

Experimental and theoretical studies of nuclear reactions: Fission - Conference Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[234] Formation mechanism of decay fragments in spontaneous ternary fission of heavy nuclei	KALANDAROV, SHUHRAT
12:20	[97] Neutron-Induced Fission Cross Section of ^{237}Np up to 500 MeV	VOROBYEV, A.S.
12:40	[157] Fission of ^{243}Am by neutrons of intermediate energy: analysis of cross section and angular anisotropy of fission fragments	BARABANOV, A. L.
13:00	[233] The effect of the non-axial shape of nuclei on the fission characteristics in the Langevin approach	KOSTRYUKOV, Pavel
13:20	[258] Appearance of the hindrance to complete fusion in heavy-ion collisions	NASIROV, Avazbek
13:40	[212] Fission modes and deformed nuclear shells in mass and energy distributions of fission fragments of ^{237}Pu compound nuclei formed in $^{233}\text{U}(\alpha, f)$ reaction at 24 and 29 MeV incident alpha particle energy	PAN, Andrey

Heavy ion collisions at Intermediate and high energies - Conference Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[47] The Hyperon Polarization and the Forward-Backward Flow in the Bi+Bi collisions at NICA	TSEGELNIK, Nikita
12:20	[73] Search for unstable nuclear states in the fragmentation of Kr nuclei at 950 MeV/nucleon	ZAITSEV, Andrei
12:40	[89] Electromagnetic dissociation of nuclei: from LHC to NICA	PSHENICHNOV, Igor
13:00	[50] EMISSION OF CUMULATIVE SECONDARY PARTICLES AND FRAGMENTS IN COLLISIONS OF HEAVY IONS OF INTERMEDIATE ENERGIES BASED ON NON-EQUILIBRIUM HYDRODYNAMIC APPROACH	D'YACHENKO, Alexander

Nuclear structure: theory and experiment: Few-body systems - Second floor Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[110] Resonant states of the 3n system in the SS-HORSE–NCSM approach	MAZUR, Alexander
12:20	[114] Machine learning in the problem of extrapolation of no-core shell model results	SHARYPOV, Roman
12:40	[61] FINDING PARAMETERS OF MULTI-CHANNEL RESONANCES FROM DISCRETIZED SPECTRA	RUBTSOVA, O. A.
13:00	[219] Short-range correlations in the lightest nuclei within the dibaryon model of nuclear forces	RUBTSOVA, Olga
13:20	[307] sd-shell evolution in neutron-rich ¹³ B and ¹⁶ C via direct reactions	XIA, Bolong
13:40	[262] Isospin analogues of the tetraneutron resonance	SHIROKOV, Andrey

Lunch (14:00 - 15:00)**Applications of nuclear methods in science, technology, medicine and radioecology: Radiation technologies/Radioecology - Conference Hall (15:00 - 17:00)**

time	[id] title	presenter
15:00	[259] Dosimetric planning of radiation treatment of bio-objects and materials	ZOLOTOV, Sergei
15:15	[208] STUDY OF THE RADIOECOLOGICAL SITUATION AT THE SITES OF EMERGENCY UNDERGROUND NUCLEAR EXPLOSIONS IN THE 70S IN YAKUTIA	MAMAEVA, Sargylana
15:30	[145] THE EFFECT OF X-RAY RADIATION AND ACCELERATED ELECTRONS ON POTATO YIELD	CHULIKOVA N.S., Чуликова
15:45	[244] APPLICATION OF COMBINED RADIATION TECHNOLOGIES FOR STERILIZATION OF CULTURAL HERITAGE ARTIFACTS	NIKOLAEVA, Nadezhda
16:00	[158] Определение тормозной способности ионов углерода в органических соединениях при помощи ядер отдачи	TIMOFEY, Bobrovskiy
16:15	[235] PROSPECTS AND DIRECTIONS FOR IMPROVING RADIATION STERILIZATION TECHNIQUES	KHUTSISTOVA, Alana
16:30	[322] New beam dynamics simulation for the updated coil design of MSC230 cyclotron for medical-biological research	SEDOV, Leonid
16:40	[33] ИЗМЕРЕНИЕ КОНЦЕНТРАЦИИ АЛЬФА-ИЗЛУЧАЮЩИХ НУКЛИДОВ В РАСТВОРАХ С ПОМОЩЬЮ АЛЬФА-СПЕКТРОМЕТРИИ	ERSHOV, Konstantin

Experimental and theoretical studies of nuclear reactions - Blokhintsev Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[85] ANALYSIS OF THE PROTON AMPLITUDE OF SCATTERING ON THE BOUNDED NUCLEAR NUCLEONS BASING ON THE PROTON-NUCLEUS SCATTERING DATA	ABDULMAGEAD, Ibrahim
15:20	[49] ANALYTIC CONTINUATION OF DIFFERENTIAL CROSS SECTIONS AS A WAY TO DETERMINE ASYMPTOTIC NORMALIZATION COEFFICIENTS. APPLICATION TO THE $^{16}\text{O}(d,p)^{17}\text{O}$ REACTION	BLOKHINTSEV, Leonid
15:40	[52] Данные о нейтрон-протонной длине рассеяния, извлеченные в реакции $n + ^2\text{H} \rightarrow n + n + p$ при энергии нейтронов 5 МэВ	КАСПАРОВ, Александр
16:00	[88] Вычисление сечения резонансной реакции $^6\text{Li}(2\text{H}, 4\text{He})^4\text{He}$ на основе результатов ab initio расчетов спектров высоковозбужденных состояний ^8Be	RODKIN, Dmitry
16:20	[36] THEORETICAL STUDY OF THE TRANSFER REACTIONS IN THE D + D SYSTEM	SOLOVYEV, Alexander
16:40	[111] ИССЛЕДОВАНИЕ РЕАКЦИЙ ПОД ДЕЙСТВИЕМ БЫСТРЫХ НЕЙТРОНОВ НА ЯДРЕ ^{10}B С ИСПУСКАНИЕМ ТРИТИЯ С ПОМОЩЬЮ КООРДИНАТНОГО ДЕТЕКТОРА	ПОТАШЕВ, Станислав

Experimental and theoretical studies of nuclear reactions: Gamma-reactions - Second floor Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[45] POSSIBILITIES OF PHOTONUCLEAR EXPERIMENTS AT $E_\gamma = (1-4)$ MeV ON COLLIMATED γ -SOURCES FROM COMPTON BACKWARD-SCATTERING	DZHILAVYAN, Leonid
15:20	[44] PHOTONEUTRON REACTION CROSS SECTIONS RELIABILITY IN DIFFERENT TYPE EXPERIMENTS	VARLAMOV, Vladimir
15:40	[327] THE ISOSPIN SPLITTING OF GDR AND PHOTOPROTON REACTIONS ON MERCURY ISOTOPES	PORYADINA, Olesya
15:50	[335] PHOTOPROTON REACTIONS ON ERBIUM ISOTOPES	FURSOVA, Nadezhda
16:00	[132] LIGHT AND MEDIUM-HEAVY NUCLEI PHOTONEUTRON REACTION CROSS-SECTIONS IN BREMSSTRAHLUNG BEAM EXPERIMENTS	DAVYDOV, Aleksandr
16:10	[323] Study of $^{209}\text{Bi}(\gamma, xn)$ relative reaction yields in energy range 35-60 MeV	DEMICHEV, Mikhail
16:20	[118] EXPERIMENTAL STUDY OF RELATIVE PROBABILITY OF HIGH-SPIN ISOMERIC STATES POPULATION IN (α, n) -REACTIONS	T. V. CHUVILSKAYA
16:40	[130] Stimulation of Re-186m isomeric nuclei de-excitation in high-current Z-pinch plasma at the "Angara-5-1" facility	KOLTISOV, Vladimir

Heavy ion collisions at Intermediate and high energies - Conference Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[95] Analysis of nuclear track emulsion exposed by relativistic hadrons	NATARAJAN, MARIMUTHU
15:15	[133] Performance study of the anisotropic flow measurements with fixed-target mode of the MPD experiment at NICA	PARFENOV, Peter
15:35	[139] Cumulative production at central rapidities due to interactions involving fluctons	VECHERNIN, Vladimir

15:55	[104] Measurement of neutron energy spectra in the region of large angles in Xe + CsI collisions at energy of 3.8 A GeV	LASHMANOV, Nikita
16:10	[275] Cold Superdense Baryonic Component of Nuclear Matter	SHIMANSKIY, Stepan
16:25	[147] Event-by-event determination of thermodynamic quantities at NICA energies	KOVALENKO, Vladimir
16:45	[173] Self-similarity approach in relativistic nuclear physics	BALDINA, Elina

Coffe break - Buffet (17:00 - 17:30)**Applications of nuclear methods in science, technology, medicine and radioecology - Conference Hall (17:30 - 19:20)**

time	[id] title	presenter
17:30	[331] PROGRAM FOR QUICK CALCULATION OF ABSORBED DOSE DISTRIBUTION BY DEPTH IN HOMOGENEOUS OBJECTS	STUDENIKIN, Felix
17:50	[333] Chemical transformations of volatile organic compounds in animal-derived products after irradiation	IPATOVA, Victoria
18:05	[353] Optimization of radiation treatment of biological objects	BLIZNYUK, Ulyana
18:20	[70] Механизм уточнения энергетических потерь ионов в области низких энергий с помощью измерения эффекта Доплера	GRACHKOV, Alexey
18:35	[220] Performance of the Mass Testing Setup for Arrays of Silicon Photomultipliers in the TAO Experiment	РЫБНИКОВ, Арсений
18:50	[247] Evolution of the neutron spectrum during propagation of the neutron flux in solid bodies	KHLIUSTIN, Denis
19:05	[355] Monte Carlo Simulation Techniques in Radiation Dosimetry: Advancements and Applications	ASHUROV, Sindorjon

Experimental and theoretical studies of nuclear reactions - Blokhintsev Hall (17:30 - 19:25)

time	[id] title	presenter
17:30	[196] Examination of collective and single-particle models for excited states of ^{13}C below 10 MeV in nuclear reactions induced by 18 MeV deuteron beam	JANSEITOV, Daniyar
17:50	[280] Observation of positive parity wave in low energy spectrum of ^7He	BEZBAKH, Andrey
18:10	[211] DETERMINATION OF NUCLEAR MATTER RADII USING S-MATRIX FOR ELASTIC SCATTERING OF IDENTICAL NUCLEI	SAMARIN, Viacheslav
18:25	[72] Исследование испарительных каналов реакций полного слияния с тяжелыми ионами, приводящих к образованию ядер с $88 \leq Z \leq 102$.	КУЗНЕЦОВА, Алёна
18:40	[42] Measurement and analysis of the $^{13}\text{C}(\alpha, \alpha^0)^{13}\text{C}$ reaction cross-section in the energy range of 2.0 – 7.0 MeV	PRUSACHENKO, P.S.
18:55	[98] Определение низкоэнергетических параметров p -состояния в реакции $d + ^1\text{H} \rightarrow p + p + n$	МИЦУК, Вячеслав
19:10	[215] Исследование вариации МНД	ZEYNALOV, Shakir

Experimental and theoretical studies of nuclear reactions: Gamma-reactions/Multinucleon transfer reactions - Second floor Hall (17:30 - 19:40)

time	[id] title	presenter
------	------------	-----------

17:30	[206] Study of the activity yields of $^{186,188}\text{Re}$ in (γ, pxn) reactions	ZHELTONOZHSKAYA, Marina
17:40	[162] Investigation of (γ, xn) -reactions on natural iridium at 55 MeV bremsstrahlung energy	PUPYSHEV, Vladimir
17:50	[137] Исследование угловых распределений и сечений излучения гамма-квантов на ядрах Si, O и C в реакциях с быстрыми нейтронами	ANDREEV, Alexander
18:10	[144] Role of entrance channel angular momentum on the mass-energy distributions of ^{224}Th	DEY, ANIRUDDHA
18:30	[291] Experimental study of MNT process in the reaction $^{209}\text{Bi} + ^{238}\text{U}$ at energy 1.85 GeV	VOROBEOV, Igor
18:50	[96] Competition between deep-inelastic transfer and fragmentation reactions in heavy-ion collisions at Fermi energy region	БАТЧУЛУУН, Эрдэмчимэг
19:05	[265] STUDY OF NUCLEON TRANSFER PROCESSES IN THE REACTIONS $^{48}\text{Ca} + ^{197}\text{Au}$, $^{48}\text{Ca} + ^9\text{Be}$	MOLOTORENKO, Ksenia
19:20	[241] exotic structure studies of light neutron-rich nuclei via transfer reactions	LOU, Jianling

Heavy ion collisions at Intermediate and high energies - Conference Hall (17:30 - 19:15)

time	[id] title	presenter
17:30	[151] Charged fragments-spectators measurements with Scintillation Wall in the BM@N experiment $\text{Xe} + \text{CsI}$ @ 3.8 AGeV	MAMAEV, Mikhail
17:50	[156] Peeling away surface neutrons from ^{209}Bi in asymmetric collisions	SVETLICHNYI, Aleksandr
18:10	[142] Reconstruction of strange particle decays from $\text{Xe} + \text{CsI}$ interactions with the BM@N spectrometer	ZINCHENKO, Alexander
18:25	[174] Lobachevsky geometry in relativistic nuclear physics. Directed nuclear radiation	BALDIN, Anton
18:40	[250] Anisotropic Collective Flow at High Baryon Density	ТАРАХЕНКО, Аркадий
19:00	[252] Recent PHENIX results on identified charged hadron production	LARIONOVA, Daria

среда, 3 июля 2024 г.

Heavy ion collisions at Intermediate and high energies - Conference Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[274] Is there diffraction dissociation of nuclear nucleons in nucleus-nucleus interactions	УЖИНСКИЙ, Владимир
09:50	[279] Status and preparations for the first physics with the MPD experiment at NICA	GOLOSOV, Oleg
10:10	[292] Towards understanding of K^0_s meson production in hadronic interactions	GALOYAN, Aida
10:30	[54] The MPD-ITS project. Status and Perspectives.	CEBALLOS SANCHEZ, Cesar
10:50	[181] Feasibility study for directed flow measurements in the BM@N experiment	MAMAEV, Mikhail
11:00	[350] VARIATION OF THE SOURCE VELOCITY IN COLLISIONS OF 2.1 GeV PROTONS WITH GOLD TARGET	АВДЕЕВ, Сергей
11:10	[11] Unstable nuclei ^8Be and ^9B and the Hoyle state in relativistic nuclear fragmentation	ZARUBIN, Pavel

Neutrino physics and nuclear astrophysics: Neutrino physics - Second floor Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[18] On the possibility of the Majorana nature of neutrinos	MONAKHOV, Vadim
09:50	[60] TUNED ELECTRON-NUCLEUS RESONANCE AS A TOOL OF PRODUCING THE ^{229}Th ISOMER	KARPESHIN, Fedor
10:10	[40] Capture of neutrinos from the accelerator by Iodine-127 nuclei	FAZLIAKHMETOV, Almaz
10:25	[100] Применение кристаллов ZnSe в калибровочных экспериментах	СЕМЕHOB, Сергей
10:35	[78] Измерение квантинг-фактора α -частиц в теллурсодержащих жидких сцинтилляторах	SUSLOV, Ivan
10:45	[128] $\text{NaI}(\text{Ti})$ scintillation neutrino detector with ultra-low energy threshold	STRIZHAK, Alexander
11:00	[166] High-energy neutrino generation at jets from supermassive black holes	PROKOPEV, Konstantin
11:15	[35] Поиск одно- и трех-нуклонных распадов ^{76}Ge в эксперименте GERDA	SMOLNIKOV, A.A.

Nuclear structure: theory and experiment - Blokhintsev Hall (09:30 - 11:30)

time	[id] title	presenter
09:30	[246] ON THE STRENGTH DISTRIBUTION OF ISOSCALAR GIANT MONOPOLE RESONANCE IN MEDIUM-HEAVY SPHERICAL NUCLEI	GORELIK, Mikhail
09:50	[309] Microscopic description of isoscalar giant monopole resonance in spherical nuclei	ARSENYEV, Nikolay
10:05	[76] Dipole electric and magnetic strengths in ^{156}Gd	VISHNEVSKIY, Petr
10:20	[83] Spin-dipole strengths and neutron skin thickness of ^{90}Zr , ^{132}Sn , ^{208}Pb	TOLOKONNIKOV, Sergei
10:40	[13] SOME FEATURES OF BETA-DECAY STRENGTH FUNCTION IN HALO NUCLEI	IZOSIMOV, Igor
11:00	[140] Muon capture measurements with ^{136}Ba target.	FOMINA, Maria
11:15	[167] Investigation of low-energy spectrum in $^{250-260}\text{No}$ chain	MARDYBAN, Mariia

Coffee break - Buffet (11:30 - 12:00)**Heavy ion collisions at Intermediate and high energies - Conference Hall (12:00 - 14:00)**

time	[id] title	presenter
12:00	[24] NEGATIVE PION PHOTOPRODUCTION ON THE TENSOR-POLARIZED DEUTERON AT VEPP-3	GAUZSHTEIN, V.V.
12:20	[263] Photodisintegration of polarized deuteron. Status of the experiment at the VEPP-3 storage ring.	SHESTAKOV, Yuri
12:40	[16] Relativistic equation for four-nucleon system	YUREV, Sergey
12:55	[125] Covariance and noncovariance of relativistic spin equations	SILENKO, Alexander
13:10	[239] О проблеме происхождения массы нуклона	KOMAROV, Vladimir
13:25	[87] Создание теоретической базы данных сечений редких ядерных процессов, рассчитанных в модели ядерных реакций кваркового уровня CHIPS	KOSOV, Mikhail
13:40	[361] Dualities in heavy-ion collisions	TERYAEV, Oleg
13:50	[230] Magnetic moment and polarizability of the vector strange mesons from lattice QCD	TERYAEV, Oleg

Neutrino physics and nuclear astrophysics: Neutrino physics - Second floor Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[254] STATUS AND RESULTS FROM NUGEN EXPERIMENT AT KALININ NUCLEAR POWER PLANT	ЛУБАШЕВСКИЙ, Алексей
12:20	[243] Investigation of reactor antineutrino in the DANSS experiment	ZHITNIKOV, Igor
12:40	[288] A search for correlation of neutrino events in the Borexino detector with transient astrophysical phenomena.	UNZHAKOV, Evgeniy
13:00	[293] Search for Sterile Neutrino with the Daya Bay full dataset	ZAVADSKYI, Vitalii
13:20	[313] Classification of tau-neutrino events in the Scattering and Neutrino Detector using kinematic information	GULIAEVA, Vasilisa
13:40	[67] ACTIVE AND STERILE NEUTRINO OSCILLATIONS INSIDE THE SUN IN A PHENOMENOLOGICAL (3+1+2)-MODEL	KHRUSCHOV, Viacheslav

Nuclear structure: theory and experiment - Blokhintsev Hall (12:00 - 14:00)

time	[id] title	presenter
12:00	[287] Delineating the island of deformation in the light gold isotopes by means of laser spectroscopy	MOLKANOV, Pavel
12:20	[290] In-source laser photoionization spectroscopy of heavy ($N > 126$) Bi isotopes	SELIVERSTOV, Maxim
12:40	[82] Nuclear electromagnetic moments and radii near $N = 126$ neutron shell	BORZOV, Ivan
13:00	[119] Evolution of neutron shell structure of $N = 14, 16$ isotones	BESPALOVA, Olga
13:20	[187] Single-particle structure of mirror nuclei near ^{48}Ni	KLIMOCKINA, Anna
13:40	[203] Investigation of 1^+ excitations in light and medium nuclei within shell model	ONEGIN, Mikhail

Lunch (14:00 - 15:00)

Design of new experimental facilities - Conference Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[55] IP vertexing – a novel idea	DIMA, Maria
15:15	[39] Microtron based VEGA-m spectrometer for study of the shape isomers decays.	SOLODOV, Alexey
15:30	[71] Misalignment influence on the track reconstruction in the MPD TPC	KUZMIN, Valentin
15:45	[129] Detector setup optimization based on training artificial neural-networks	GALAKTIONOV, Kirill
16:00	[200] Исследование наноуглеродных центров спонтанной эмиссии на катодах многопроволочных пропорциональных камер мюонных детекторов LHCb	DZYUBA, Alexey
16:15	[189] Integration of the HGND readout into the B@MN experiment data acquisition system	FINOGEEV, Dmitry
16:30	[349] Экспериментальное обоснование необходимости исследования радиационных свойств материалов: графит, тантал, висмут, золото, уран, торий, актиниды, ленты втсп, с целью создания технологий для работы реакторов работающих в электроядерном (АДС) варианте.	СТЕГАЙЛОВ, Владимир
16:45	[222] Cryogenic gas stopping cell testing with alpha source and Monte Carlo simulations	NOVOSELOV, Aleksey

Neutrino physics and nuclear astrophysics: Astrophysics - Second floor Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[164] NUCLEOSYNTHESIS IN A LOW-MASS NEUTRON STAR CRUST. STRIPPING MODEL.	IGNATOVSKIY, Anton
15:15	[334] Ricci-Gauss-Bonnet gravity, cosmology, and nuclear astrophysics	POKROVSKY, Yury
15:30	[245] Об особенностях гиперонных взаимодействий в нейтронных звёздах	MIKHEEV, Semyon
15:50	[318] Neutrino magnetic moments and high-energy neutrinos flavour composition	POPOV, Artem
16:05	[321] SATURNE: Current Status and Physics Potential	KOUZAKOV, Konstantin
16:25	[41] The Signature of Neutron Fluences of the Artificial Pulse Nucleosynthesis	LYASHUK, Vladimir
16:45	[357] Effects of neutrino electromagnetic properties and spin state in elastic neutrino-nucleon scattering	LAZAREV, Fedor

Nuclear structure: theory and experiment - Blokhintsev Hall (15:00 - 17:00)

time	[id] title	presenter
15:00	[65] Spin scissors mode in Actinides	MOLODTSOVA, Irina
15:20	[146] Separable forces approximation in the generalized theory of finite fermi systems.	KAMERDZHIEV, Сергей
15:40	[348] ИССЛЕДОВАНИЕ СВОЙСТВ УРОВНЕЙ НЕЧЕТНО-НЕЧЕТНОГО ЯДРА ГОЛЬМИЯ С A=160.	СТЕГАЙЛОВ, Владимир
15:55	[298] Appearance of superconducting pair correlations in spherical even-even nuclei	KUZ'MIN, Vladimir
16:10	[336] Модифицированные массовые соотношения GKT и GKL	СТОПАНИ, Константин
16:25	[107] СРАВНЕНИЕ МЕТОДОВ ДИАГНОАЛИЗАЦИИ ГАМИЛЬТониАНА БКШ С ТОЧНЫМ СОХРАНЕНИЕМ ЧИСЛА ЧАСТИЦ	VLASNIKOV, Alexandr

16:40	[99] ZEEMAN EFFECT IN NUCLEI	BALBUTSEV, Evgeny
-------	------------------------------	-------------------

Coffe break - Buffet (17:00 - 17:30)**Design of new experimental facilities - Conference Hall (17:30 - 18:55)**

time	[id] title	presenter
17:30	[311] The first results of test of the SPD Beam-Beam Counter scintillation detector prototype	TISHEVSKY, Aleksey
17:45	[228] Performance of the Time-of-flight system at the BM@N experiment	ZHAVORONKOVA, Irina
18:00	[229] Экспериментальная установка для прецизионного измерения зарядового радиуса протона	GAVRILOV, Gennadii
18:15	[255] Front-end electronics and mechanical design of the HGND for BM@N experiment	MAKHNEV, Aleksandr
18:30	[294] About the efficiency of the Electron Beam Ion Sources and Traps (EBIS/T)	РАМЗДОРФ, Александр
18:45	[306] ПРИМЕНЕНИЕ МИКРОСТРИПОВЫХ КРЕМНИЕВЫХ ДЕТЕКТОРОВ ДЛЯ ИССЛЕДОВАНИЯ РАСПАДОВ С ИСПУСКАНИЕМ ПРОТОНОВ	ХАМИДУЛЛИН, Булат

Neutrino physics and nuclear astrophysics: Astrophysics - Second floor Hall (17:30 - 18:40)

time	[id] title	presenter
17:30	[154] The Fayans energy-density functional in applications to neutrons stars	KOLOMEITSEV, Evgeni
17:50	[126] Neutrinos from dynamo-driven supernovae	KONDRATYEV, Vladimir
18:10	[69] Crust of accreting neutron stars	CHUGUNOV, A.I.

Nuclear structure: theory and experiment - Blokhintsev Hall (17:30 - 18:55)

time	[id] title	presenter
17:30	[365] Investigation of the properties of the first excited 1^- states of even-even nuclei	JOLOS, Rostislav
17:50	[341] Spectroscopy of transfermium elements @GRAND/SHELS	TEZEKBAYEVA, M.S.
18:05	[278] Nucleon-pair approximation with particle-hole excitations	CHENG, Yiyuan
18:25	[123] Empirical systematics of spontaneous fission half-lives of heavy and superheavy nuclei	MOISEEV, Nikita
18:40	[371] Size, shape and deformation of nuclei	MUSULMANBEKOV, Genis

Poster session - Hall (18:55 - 20:55)

четверг, 4 июля 2024 г.

Plenary - Conference Hall (09:30 - 11:00)

time	[id] title	presenter
09:30	[301] The Tagged Neutron Method and its Application for Nuclear Physics Studies and Applied Research	KOPATCH, Yuri
10:00	[56] Manifestation of chaos in nuclear structure phenomena	NAZMITDINOV, Rashid
10:30	[224] БАЗА ДАННЫХ И СИСТЕМАТИКА МАГНИТНЫХ МОМЕНТОВ ЯДЕР	МИТРОПОЛЬСКИЙ, Иван

Coffee break - Buffet (11:00 - 11:30)

Plenary - Conference Hall (11:30 - 13:00)

time	[id] title	presenter
11:30	[317] Electromagnetic neutrinos: The basic interaction processes and constraints from laboratory experiments and astrophysics.	STUDENIKIN, Alexander
12:00	[218] The JUNO Experiment: Current Status and Prospects	ANFIMOV, Nikolay
12:30	[75] Pre-supernova (anti)neutrino emission via weak processes with hot nuclei	DZHIOEV, Alan

Excursion along the Volga River by boat (13:00 - 18:00)

Banquet (18:15 - 21:00)

пятница, 5 июля 2024 г.

Plenary - Conference Hall (09:30 - 11:00)		
time	[id] title	presenter
09:30	[117] MODERN DETECTOR TECHNOLOGIES FOR NUCLEAR PHYSICS EXPERIMENTS AND DIAGNOSTIC STUDIES IN NUCLEAR MEDICINE	ZHEREBCEVSKY, Vladimir
10:00	[368] Modern nuclear physics research in radiation medicine	CHERNYAEV, Alexander
10:30	[363] The MONUMENT (Muon Ordinary capture for the NUClear Matrix elemENTS in $\beta\beta$ decays) project's overview and advantages	SHIRCHENKO, Mark

Coffee break - Buffet (11:00 - 11:30)

Plenary - Conference Hall (11:30 - 12:50)		
time	[id] title	presenter
11:30	[205] High-Granular Time-of-Flight Neutron Detector HGND for the BM@N experiment	MOROZOV, Sergey
12:00	[124] Heavy-ion physics results by the CMS experiment	PETRUSHANKO, Sergey
12:30	[369] ПАК для поиска и идентификации гамма-излучающих нуклидов на основе машинного обучения - результаты 2022-2024 годов.	БРЕДИХИН, И.С.

Lunch (12:50 - 13:50)

Experimental and theoretical studies of nuclear reactions - Conference Hall (13:50 - 15:20)		
time	[id] title	presenter
13:50	[308] Исследование альфа кластерных структур в ядре ^{46}Ti	ISSATAYEV, Talgat
14:10	[176] TARGET DEPENDENCE OF THE ISOTOPE DISTRIBUTIONS IN HEAVY-ION REACTIONS AT FERMI ENERGIES	MIKHAYLOVA, Tatiana
14:25	[305] Study of the Coulomb decay of light fragment procuced in the ternary fission of ^{252}Cf	ПАРФЕНОВА, Юлия
14:40	[195] Detection system of the DGFRS-2 setup: first applications in long term irradiations with intense heavy ion beams at DC-280 cyclotron	TSYGANOV, Yury
15:00	[302] Study of the break-up of fission fragments in solid-state foils using double-hit experimental approach	KAMANIN, Dmitry

Closing - Conference Hall (15:20 - 15:50)