LXXII International conference "Nucleus-2022: Fundamental problems and applications"

Tuesday 12 July 2022

Nuclear structure: theory and experiment - Физический факультет, ауд. 5-19 (10:00-11:40)

-Conveners: Dmitri Eremenko

time	[id] title	presenter
	[56] First experiment at the Super Heavy Element Factory. New data in the 243Am + 48Ca reaction.	KOVRIZHNYKH, Nikita
10:20	[48] Detailed study of radioactive decay properties of nobelium isotopes with α , β , γ -spectroscopy method	TEZEKBAYEVA, Mereigul
	[59] The multiplicity of neutrons of spontaneous fission of 250No obtained in complete fusion reactions with heavy ions at the SHELS separator.	Mr SAILAUBEKOV, Bekzat
	[151] Neutron multiplicity distributions for 250No spontaneous fission from ground state or at the decay of the isomeric state	MUKHIN, Roman
11:20	[116] Study of the 242Pu + 48Ca and 238U + 48Ca reactions at DGFRS-II	Mr IBADULLAYEV, Dastan

Nuclear structure: theory and experiment - Физический факультет, ауд. 5-19 (12:10-13:50)

-Conveners: Dmitri Eremenko

time	[id] title	presenter
12:10	[354] POSSIBLE ROTATIONAL STRUCTURE OF \$^{13}\$C LOW-LYING EXCITED STATES	Dr DANILOV, Andrey
12:30	[392] SIZE ISOMERS IN LIGHT NUCLEI	DEMYANOVA, Alla
12:50	[333] STUDY OF EXCITED STATES IN ATOMIC NUCLEI 46Ti AND 45Ti IN REACTIONS WITH 3He BEAM AT 29 MeV	Dr SKOBELEV, Nikolay
13:10	[191] \$^8\$He SPECTROSCOPY IN STOPPED PION ABSORPTION REACTION	LEONOVA, Tatiana
	[55] Experimental manifestation of the strong nuclear interaction in the optical spectra of solids	PLEKHANOV, Vladimir

Nuclear structure: theory and experiment - Физический факультет, ауд. 5-19 (15:00-16:40)

-Conveners: Alexander Mazur

time	[id] title	presenter
15:00	[50] Analysis of M1 excitations in \$^{28}\$Si using inelastic proton scattering	ONEGIN, Mikhail
	[280] STUDY OF 209Bi(γ,xn) REACTIONS IN ENERGY REGION UP TO 100 MeV	DEMICHEV, Mikhail
15:40	[158] First tests on GRAND set-up	KUZNETSOVA, Alena
16:20	[244] DIRECT ONE-NEUTRON DECAY OF THE ISOSCALAR GIANT DIPOLE RESONANCE IN MEDIUM-HEAVY SPHERICAL NUCLEI: A SEMI-MICROSCOPIC DESCRIPTION	Mr GORELIK, Mikhail

Nuclear structure: theory and experiment - Физический факультет, ауд. 5-19 (17:10-19:00)

-Conveners: Alexander Mazur

time	[id] title	presenter
17:10	[272] THE HALF-LIFE OF 229mTh ISOMERS IN ACID SOLUTION	KOLTSOV, Vladimir
17:30	[265] NATURAL WIDTHS OF ATOMIC LEVELS IN THORIUM DETERMINED BY THE ICES METHOD	INOYATOV, Anvar
	[78] EXPERIMENTAL INVESTIGATIONS OF THE 9.2, 15.1, AND 24.3 keV NUCLEAR TRANSITIONS IN 227Th AND CONSEQUENCES OF THEIR RESULTS FOR SPIN-PARITY ASSIGNMENTS TO LOW-LYING STATES OF 227Th	Dr INOYATOV, Anvar
18:10	[491] OCTUPOLE EXCITATIONS IN 238U	USMANOV, Pazlitdin
18:20	[492] K-FORBIDDEN M1-TRANSITIONS IN 156Gd	USMANOV, Pazlitdin

Thursday 14 July 2022

<u>Nuclear structure: theory and experiment: NS3</u> - Физический ф-т, 5-19 (15:00-16:40)

-Conveners: Valentin Nesterenko

time	[id] title	presenter
	[238] Generalization of theory of finite fermi-systems for pygmy- and giant multipole resonances	Prof. KAMERDZHIEV, Sergey
	[262] Microscopic description of isoscalar giant monopole resonance: the case of 48Ca	Dr ARSENYEV, Nikolay
	[89] PROPERTIES OF GAMOW-TELLER AND CHARGE-EXCHANGE GIANT SPIN-MONOPOLE RESONANCES IN MEDIUM-HEAVY CLOSED-SHELL PARENT NUCLEI: A SEMIMICROSCOPIC DESCRIPTION	BONDARENKO, Vladimir
	[68] NUCLEUS SURFACE TENSION AND ITS MICROSCOPIC RESONANCE DESCRIPTION	Mr DOLGODVOROV, Aleksey
	[69] INFLUENCE OF NUCLEON PAIRS ON THE NUCLEAR SURFACE TENSION	Prof. GONCHAROVA, Natalia

<u>Nuclear structure: theory and experiment: NS3</u> - Физический ф-т, 5-19 (17:08-18:48)

-Conveners: Valentin Nesterenko

time	[id] title	presenter
17:08	[443] LOCAL MAGIC NUCLEI: PROPERTIES AND STRUCTURE	BOBOSHIN, Igor
	[65] Influence of nuclear surface diffuseness on halo structure of Zr isotopes near the neutron drip line	BESPALOVA, Olga
17:55	[166] Role of Quarks in Nuclear Structure	MUSULMANBEKOV, Genis
	[487] SMOOTHNESS OF MASS SURFACE OF ODD ACTINIDE NUCLEI AND PAIRING ENERGIES	Dr VLASNIKOV, A. K.

Friday 15 July 2022

<u>Nuclear structure: theory and experiment: Few body</u> - Физический ф-т, ЦФА (10:00-11:40)

-Conveners: Alexander K. Motovilov

time	[id] title	presenter
	[197] Theoretical study of antihydrogen formation reactions in the three body e-e+p system via Faddeev-Merkuriev equations in total orbital momentum representation	GRADUSOV, Vitaly
	[171] Optimal bounds on the speed of subspace evolution governed by a time-dependent Hamiltonian	MOTOVILOV, Alexander K.
10:40	[213] UNION OF DISCRETIZED SPECTRA FOR SCATTERING CALCULATIONS	POMERANTSEV, Vladimir
11:00	[255] RECENT PROGRESS IN DESCRIPTION OF NN SCATTERING WITH THE DIBARYON MODEL	RUBTSOVA, Olga
	[103] CONTRIBUTION OF INDUCED DIPOLE INTERACTION TO THE ASYMPTOTIC BEHAVIOR OF WAVE FUNCTION COMPONENTS FOR THE SCATTERING IN THREE BODY COULOMB SYSTEMS	YAKOVLEV, Sergey

<u>Nuclear structure: theory and experiment: NS1</u> - Физический ф-т, 5-19 (10:00-11:40)

-Conveners: Igor Izosimov

time	[id] title	presenter
	[163] POSSIBILITIES TO IMPROVE VARIATIONAL CALCULATIONS USING OSCILLATOR BASIS	KULIKOV, Vasily
	[186] Ab initio calculations of branching ratios of alpha particles, neutrons and protons in the decay of excited states of beryllium isotopes.	Prof. TCHUVIL'SKY , Yuri
	[185] AB INITIO STUDY OF RADII AND COULOMB SHIFTS OF SIX-NUCLEON ISOBAR ANALOGUE STATES	RODKIN, Dmitry
	[91] SS-HORSE APPROACH: FURTHER DEVELOPMENT AND APPLICATION TO THE STUDY OF LIGHT NUCLEI	MAZUR, Alexander
	[7] SEARCH FOR ALPHA-CONDENSATE EFFECTS IN DISSOSIASION OF RELATIVISTIC NUCLEI	ZAITSEV, Andrei

<u>Nuclear structure: theory and experiment: NS1</u> - Физический ф-т, 5-19 (12:10-13:50)

-Conveners: Igor Izosimov

time	[id] title	presenter
12:10	[33] EXTRAPOLATION OF THE LOWEST STATE ENERGIES IN SUPERHEAVY EVEN-EVEN NUCLEI	EFIMOV, Alexander
	[258] ROTATIONAL SPECTRA OF EVEN-EVEN ACTINIDE AND RARE-EARTH NUCLEI	OKHUNOV, Abdurahim
12:50	[75] Probing Microscopic Properties of Superdeformed Nuclei	JAIN, Poonam
	[81] The Fayans energy-density functional. New constraints from the equations of state.	BORZOV, Ivan
13:30	[458] Neutron multiplicity of transplutonium nuclei	BEZBAKH, Anna

<u>Nuclear structure: theory and experiment: Few body</u> - Физический ф-т, ЦФА (12:10-13:50)

-Conveners: Alexander K. Motovilov

time	[id] title	presenter
	[391] BOSE-HUBBARD MODELS WITH ON-SITE AND NEAREST-NEIGHBOR INTERACTIONS: EXACTLY SOLVABLE CASE	LAKAEV, Saidakhmat
	[384] MINLOS-FADDEEV REGULARIZATION OF ZERO-RANGE INTERACTIONS IN THE THREE-BODY PROBLEM	MALYKH, Anastasia
	[385] ABSENCE OF THE THREE-BODY BOUND STATES FOR SMALL MASS RATIO IN THE TWO-COMPONENT SYSTEM	Dr KARTAVTSEV, Oleg
	[432] Potential splitting approach for scattering problem for few-body quantum systems	YAREVSKY, Evgeny
	[208] Simple model of dissociation based on time-dependent Faddeev equations	Dr ROUDNEV, Vladimir

<u>Nuclear structure: theory and experiment: NS1</u> - Физический ф-т, 5-19 (15:00-16:40)

-Conveners: Alexander Mazur

time	[id] title	presenter
15:00	[224] Nuclear shape evolution in the lead region: neutron-deficient bismuth and gold isotopes	MOLKANOV, Pavel
	[129] Evolution of the phenomenologically determined collective potential along the chain of Zr isotopes	MARDYBAN, Evgenii
15:40	[96] ON SHORT-RANGE CORRELATIONS IN ATOMIC NUCLEI	KOSTENKO, Boris
16:00	[239] Dynamic three-quasiparticle correlations in the ground state	Mr SHITOV, Mikhail
16:20	[425] STUDY OF COULOMB BREAKUP OF 11BE WITHIN THE NON-PERTURBATIVE SEMICLASSICAL AND QUANTUM-QUASICLASSICAL TIME-DEPENDENT APPROACHES	VALIOLDA, Dinara

<u>Nuclear structure: theory and experiment: Few body</u> - Физический ф-т, ЦФА (15:00-16:40)

-Conveners: Vladimir Melezhik

time	[id] title	presenter
15:00	[394] Quantum-quasiclassical approach for few-body problems in atomic and nuclear physics	MELEZHIK, Vladimir
15:20	[398] Hydrogen Atom in Strong Elliptically Polarized Laser Fields within Discrete-Variable Representation	Dr SHADMEHRI, Sara
15:40	[378] The reprojection method for inelastic collision processes	Prof. BELYAEV, Andrey
16:00	[266] LITHIUM-10 AS BORROMEAN NUCLEUS SUBSYSTEM	SHAROV, Pavel
16:20	[157] PECULIARITIES OF THE ENERGY SPECTRUM OF THE 12C NUCLEUS IN A 3 α MODEL	TURSUNOV, Ergash

Nuclear structure: theory and experiment: NS1 - Физический ф-т, 5-19 (17:10-18:50)

-Conveners: Alexander Mazur

time [id] title	presenter	
17:10 [451] Behavior of moment of inertia in highly deformed 24Mg and 20Ne	MARDYBAN, Mariia	

17:30	[159] INTERPLAY OF ORDER AND CHAOS IN NUCLEAR STRUCTURE	Dr NAZMITDINOV, Rashid
	[409] Study of nuclear matter density distribution in light exotic nuclei from proton elastic scattering in inverse kinematics	INGLESSI, Alexander
18:10	[438] NUCLEAR DATA AND THE STANDARD MODEL PARAMETRS	SUKHORUCHKIN, Sergey
18:30	[25] 4G model of fitting RMS radius of proton	Prof. S, Laksminarayana