Session Program

11-17 Oct 2020

LXX International conference "NUCLEUS -2020. Nuclear physics and elementary particle physics. Nuclear physics technologies"

Section 1. Experimental and theoretical studies of the properties of atomic nuclei

Online

Monday 12 October

^{15:30} Section 1. Experimental and theoretical studies of the properties of atomic nuclei

Session | Location: Online

15:30-15:55

Description of the \$M1\$ resonance in \$^{208}\$Pb within the self-consistent phonon-coupling model

Speaker

Victor Tselyaev

15:55-16:20

MICROSCOPIC DESCRIPTION OF ISOSCALAR GIANT MONOPOLE RESONANCE IN \$^{118-132}\$Sn

Speaker

Dr Nikolay Arsenyev

16:20-16:45

TWO-PHONON STRUCTURES FOR \$\beta\$-DELAYED \$\gamma\$-SPECTROSCOPY

Speaker

Dr Alexey Severyukhin

16:45-17:00 Coffee break

17:00-17:25

Particle-hole dispersive optical model for open-shell nuclei. Implementations for describing 0\$^{+}\$ giant resonances in tin isotopes

Speaker

Mr Georgy Kolomiytsev

17:25-17:50

Properties of Isoscalar Giant Multipole Resonances in medium-heavy closed-shell nuclei: a semimicroscopic description

Speaker

Dr Mikhail Gorelik

17:50-18:15

ABOUT THE DEPENDENCE OF NUCLEAR SURFACE DIFFUSENESS ON NEUTRON-PROTON ASYMMETRY AND ITS INFLUENCE ON THE EVOLUTION OF SINGLE-PARTICLE SPECTRA

Speaker

Olga Bespalova

Tuesday 13 October

^{14:40} Section 1. Experimental and theoretical studies of the properties of atomic nuclei

Session | Location: Online

14:40-15:05

SELF-CONSISTENT STUDY OF NUCLEAR CHARGE RADII WITHIN THE FAYANS FUNCTIONAL

Speaker

Ivan Borzov

15:05-15:30

THE STRUCTURE OF HIGH-SPIN (9+) ISOMERS AND THE NATURE OF ROTATIONAL BANDS IN ODD-ODD Ho NUCLEI WITH A = 156, 158, 160.

Speaker

Mr Владимир Стегайлов

15:30-15:55

TRIAXIALITY OF EVEN-EVEN NUCLEI WITH QUADRUPOLE AND OCTUPOLE DEFORMATIONS

Speaker

S.N. Kudiratov

15:55-16:20

Self-consistent calculations of transitions between the first one-phonon 2+ and 3states in Sn isotopes

Speaker Mr Mikhail Shitov

16:20-16:35 Coffee break

16:35-17:00

ЭНЕРГЕТИЧЕСКИЙ СПЕКТР И СТРУКТУРА СОСТОЯНИЙ ИЗОТОПА \${}^{156}\$Gd.

Speaker

П.Н. Усманов

17:00-17:25 COLLECTIVE STATES AND BANDCROSSING IN EVEN CERIUM ISOTOPES

Speaker

Dr Alexander Efimov

17:25-17:50

\$\Delta I=1\$ "STAGGERING" EFFECT IN THE SPECTRUM OF BAND OF EVEN-EVEN
NUCLEI

Speaker

F.N. Temirov

18:15

Thursday 15 October

at	ection 1. Experimental and theoretical studies of the properties of comic nuclei ssion Location: Online
1	4:29-14:55 First contribution cancelled
SI	4:55-15:20 Shape Coexistence in \$^{96}\$Zr within Geometrical Collective Model peaker V. Mardyban
01 1p	.5:20-15:45 In the microscopic pygmy- and giant resonances theory accounting for complex D1h⊗phonon configurations
	peaker r Sergey Kamerdzhiev
SI	.5:45-16:10 ENERGY SPECTRUM OF COLLECTIVE STATES OF ODD-ODD NUCLEI peaker .S. Nadirbekov
1	.6:10-16:25 Coffee break
EN SI	.6:25-16:50 NERGY SURFACE AROUND A DEFORMED EVEN-EVEN NUCLEI WITH 150 <a<190 peaker K. Vlasnikov</a<190
SI	6:50-17:15 INFLUENCE OF NEUTRON SHELLS ON SURFACE TENSION IN NUCLEI peaker eksey Dolgodvorov
DI SI	.7:15-17:40 EEP NEURAL NETWORKS AND THE PHENOMENOLOGY OF SUPER-HEAVY NUCLEI peaker
1 Sl	ndrzej Bobyk .7:40-18:05 DISCRETE TRANSFORMS IN QUANTUM CHAOS peaker rof. Vadim Bunakov

Friday 16 October

15:15 Section 1. Experimental and theoretical studies of the properties of atomic nuclei Session | Location: Online 15:15-15:40 **ON POSSIBILITY TO DETECT LIGHT STERILE NEUTRINO IN BETA- AND NEUTRINOLESS DOUBLE BETA-DECAYS OF NUCLEI** Speaker Dr Sergei Semenov 15:40-16:05 DIFFERENTIAL INTENSITIES OF TWO NEUTRINO DOUBLE BETA-DECAY OF **SELENIUM-82** Speaker Dr Sergei Semenov 16:05-16:30 FOUR-NEUTRON DECAY CORRELATIONS Speaker Pavel Sharov 16:30-16:45 Coffee break 16:45-17:10 TAGS SPECTRA ANALYSIS AND BETA DECAY STRENGTH FUNCTION STRUCTURE Speaker Igor Izosimov 17:10-17:35 FINE STRUCTURE OF β-DECAY STRENGTH FUNCTION Speaker Dr Igor Izosimov 17:35-18:00 NON-STATISTICAL EFFECTS IN BETA & GAMMA DECAYS AND BETA-DELAYED **FISSION ANALYSIS** Speaker Igor Izosimov 18:00-18:25 Investigating the kaonic atoms and K\$^-\$ nuclear absorption at low-energy: SIDDHARTA-2 and AMADEUS Speaker Dr Raffaele Del Grande 18:25-18:50 Structure Of Light Λ-hypernuclei Near Nucleon Drip Lines And Baryonic Interaction

Speaker

Semyon Sidorov

18:50-19:15 RESEARCH OF ISOBAR: Yb-Tm-Er-Ho WITH A=157.

Speaker

Dr Владимир Стегайлов

19:15

Saturday 17 October

Speaker Bakytzhan Urazbekov	BUTIONS OF THE LIGHT WEAKLY BOUND NUC
Bakytzhan Urazbekov 09:50-10:15 Use of molecules to ex Speaker	xtract fundamental properties of nuclei
Speaker	xtract fundamental properties of nuclei
10:15-10:40	
Study of nuclear magnetic quadrum Speaker	oole moments at triatomic molecules
Mr Daniel Maison	
10:40-11:05 Collective structure in	\$^{116}\$Sb
Speaker	
Mr Shabir Dar	
11:05-11:20 Coffee break	
11:20-11:45 Structure of 10Li in or	ne-neutron transfer reaction 2H(9Li,p)
Speaker Andrey Bezbakh	
	AVY HELIUM ISOTOPE 8He IN STOPPED PION
ABSORPTION	
Speaker Dr Boris Chernyshev	
spp\$)X REACTION	TOPE \$^{9}\$He IN \$^{11}\$B(\$\pi^{-}\$,
Speaker	
Tatiana Leonova	
12:35-13:00	
The properties of the \$^4\$He\$_3\$	

13:00-13:50 Lunch break

13:50

atomic nue	Experimental and theoretical studies of the properties of clei clei tion: Online Convener: Prof. Sergey Yakovlev
14:10-14:35	Quantum speed limits for time evolution of a system subspace
Speaker Prof. Alexander	K Motovilov
14:35-15:00	Metastable states of diatomic beryllium molecule
Speaker Sergue Vinitsky	
15:00-15:25	Efimov states in three-atomic systems
Speaker E.A. Kolganova	
	AL STUDY OF WEAKLY-BOUND TRIATOMIC SYSTEMS WITH FADDEEV IN TOTAL ANGULAR MOMENTUM REPRESENTATION
Speaker Vitaly Gradusov	
15:50-16:05	Coffee break
16:05-16:30	Role of dibaryon resonances in elastic and inelastic NN scatterin
Speaker Olga Rubtsova	
	riable Representation method in the study of few-body quantum h a low binding energy
Speaker Vladimir Timosh	ienko
16:55-17:20 SCATTERING MOMENTUM	G PROCESSES IN FEW-BODY SYSTEMS WITH NON-ZERO ANGULAR
Speaker Mr Evgeny Yare	vsky
17:20-17:45	MPTOTIC OF THE WAVE FUNCTION OF FEW-PARTICLES IN THE