



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

## Monday 11 July 2022

### Plenary session: Opening (10:00-11:40)

-Conveners: Aleksandr Chernyaev

time	[id] title	presenter
10:00	[481] Opening	
10:30	[483] Limits of nuclear masses and elements	Prof. OGANESSIAN, Yu.Ts.
11:05	[452] NUCLEAR PHYSICS FOR THE WORLD ECONOMY	Prof. CHERNYAEV, Alexander LYKOVA, Ekaterina BORSCHEGOVSKAYA, Polina ZHELTONOZHSKAYA, Marina

### Plenary session (12:00-13:45)

time	[id] title	presenter
12:00	[242] NICA Megascience Project at JINR: Status and Plans	Prof. MESHKOV, Igor
12:35	[322] Deep-underwater neutrino telescope Baikal-GVD	Prof. DOMOGATSKY, Grigory
13:10	[319] PECULIARITIES OF STRUCTURE OF WEAKLY BOUND LITHIUM NUCLEI ( $A = 6-11$ ) AND NUCLEAR REACTION MECHANISMS AT LOW ENERGIES	Prof. KUTERBEKOV, Kairat

### Plenary session (15:10-16:55)

-Conveners: Eduard Boos

time	[id] title	presenter
15:10	[317] Some highlights of research on heavy ion collisions by ALICE at LHC	FEOFILOV, Grigory
15:45	[315] Geant4 status and applications: from HEP to nuclear medicine	Prof. IVANTCHENKO, Vladimir
16:20	[318] Structure of heavy nuclei and nucleon-nucleon interaction	JOLOS, Rostislav

### Plenary session (17:15-19:00)

time	[id] title	presenter
17:15	[316] Nuclear Structure across the energy scales from microscopic effective theories	VARY, James P.
17:50	[285] ANALYTIC CONTINUATION OF EXPERIMENTAL DATA ON SCATTERING AND REACTION PROCESSES AS A WAY TO OBTAIN INFORMATION ON CHARACTERISTICS OF BOUND NUCLEAR STATES	BLOKHINTSEV, Leonid

18:25	[489] Двухкоординатные газоразрядные детекторы нейтронов на основе российской цифровой придетекторной и регистрирующей электроники.	ПАШКОВ, А.В.
18:35	[490] Доступная для заказов в 2022 году электроника для научного эксперимента и её развитие	БРЕДИХИН, И.С.

## Wednesday 13 July 2022

### Plenary session - Физический ф-т, ЦФА (11:30-13:50)

-Conveners: Grigory Feofilov

time	[id] title	presenter
11:30	[324] FOURTH GENERATION LIGHT SOURCE SKIF IN NOVOSIBIRSK: STATUS AND PERSPECTIVES	Prof. LEVICHEV, Eugene
12:05	[396] Heavy-ion physics with CMS detector	PETRUSHANKO, Sergey
12:40	[453] The JUNO experiment: status and prospects	Dr GONCHAR, Maxim
13:15	[16] COMPTON DESINTEGRATION OF POSITRONIUM	Prof. POPOV, Yuri

## Thursday 14 July 2022

### Plenary session: 1 - Физический ф-т, СФА (10:00-11:30)

-Conveners: Alexey Barabanov

time	[id] title	presenter
10:00	[30] LOW-ENERGY M1 STATES IN DEFORMED NUCLEI: SPIN SCISSORS OR SPIN-FLIP?	NESTERENKO, Valentin
10:30	[246] PARTICLE-HOLE DISPERSIVE OPTICAL MODEL: PAST AND FUTURE	Prof. URIN, Michael
11:00	[32] CROSSING ROTATIONAL BANDS IN SUPERHEAVY EVEN-EVEN NUCLEI	EFIMOV, Alexander

### Plenary session: 2 - Физический ф-т, ЦФА (10:00-11:30)

-Conveners: Dmitri Eremenko

time	[id] title	presenter
10:00	[176] The role of plasma screening for the location of the QCD Critical end Point	AYALA, Alejandro
10:30	[80] Nucleon resonance structure and emergence of hadron mass from CLAS/CLAS12 data	ISUPOV, Evgeny
11:00	[172] POSSIBLE PHYSICS STUDIES AT THE FIRST STAGE OF THE NICA SPD PROGRAMME	UZIKOV, Yuriy

### Plenary session: 2 - Физический ф-т, ЦФА (12:00-14:00)

-Conveners: Dmitri Eremenko

time	[id] title	presenter
12:00	[79] Isotopic dependence of charge and matter radii.	BORZOV, Ivan
12:30	[133] NUCLEON TRANSFER PROCESSES IN LOW-ENERGY REACTIONS WITH HELIUM ISOTOPES	NAUMENKO, Mikhail
13:00	[349] INTERPRETATION OF THE INCOMPLETE FUSION OF NUCLEUS AS A QUASIFISSION OF DINUCLEAR SYSTEM	NASIROV, Avazbek
13:30	[289] THEORETICAL APPROACHES ALLOWING SIMULTANEOUS DESCRIPTION OF P-EVEN T-ODD ASYMMETRIES IN REACTIONS OF NUCLEAR FISSION BY POLARIZED NEUTRONS WITH THE EMISSION OF DIFFERENT LIGHT PARTICLES	KADMENSKY, Stanislav

### Plenary session: 1 - Физический ф-т, СФА (12:00-14:00)

-Conveners: Alexey Barabanov

time	[id] title	presenter
12:00	[417] EFFECTIVE INTERACTIONS AND EFFECTIVE OPERATORS FROM THE NO-CORE SHELL MODEL	SMIRNOVA, Nadezda
12:30	[49] GAMOW-TELLER AND ANALOG RESONANCES IN NEUTRON-RICH Sn ISOTOPES	LUTOSTANSKY, Yuri
13:00	[13] STUDY OF THE BETA DECAY STRENGTH FUNCTION STRUCTURE BY TAGS AND HIGH RESOLUTION NUCLEAR SPECTROSCOPY METHODS	IZOSIMOV, Igor

13:30	[220] THE MODEL FOR DESCRIBING THE WIDTH OF DOUBLE GAMMA DECAY OF THE QUADRUPOLE STATE OF SPHERICAL NUCLEI	SEVERYUKHIN, Alexey
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# Saturday 16 July 2022

## Plenary session - Физический ф-т, ЦФА (10:00-11:45)

-Conveners: Leonid Blokhintsev

time	[id] title	presenter
10:00	[320] Status of the MPD@NICA Project	Prof. RIABOV, Viktor
10:35	[321] Studies of dense baryonic matter with the BM@N experiment at the Nuclotron	MERTS, Sergei
11:10	[90] SUPERNOVA NEUTRINO SPECTRA & OBSERVATIONS BY LARGE VOLUME TELESCOPES	KONDRATYEV, Vladimir

## Plenary session - Физический ф-т, ЦФА (12:15-14:00)

-Conveners: Leonid Blokhintsev

time	[id] title	presenter
12:15	[254] PIK reactor complex	VORONIN, Vladimir
12:50	[298] MODERN TECHNOLOGIES FOR THE PRODUCTION OF NUCLEAR MEDICINE ISOTOPES	Dr ZHEREBCHEVSKY, Vladimir
13:25	[205] NUCLEAR REACTIONS CONTRIBUTION IN SPACECRAFT ON-BOARD ELECTRONICS FAILURES	CHECHENIN, Nikolay