

FORUM SCHEDULE

19-th of September (Sunday)	
Arrival of the Forum participants	
20-th of September (Monday)	
Registration of participants	09.00-09.30
Opening of the Forum, Greeting	09.30-10.00
Plenary session	10.00-13.00
Lunch	13.00-14.30
Plenary session	14.30-18.00
21-st of September (Tuesday)	
Sections sessions	09.30-13.00
Lunch	13.00-14.30
Sections sessions	14.30-18.00
Posters	16.00-18.00
Gala dinner	19.00-22.00
22-nd of September (Wednesday)	
Sections sessions	09.30-13.00
Lunch	13.00-14.30
Sections sessions	14.30-18.00
Posters	16.00-18.00
23-th of September (Thursday)	
Excursion to the "Kolsay Lakes" (or Free Day)	8.30-20.00
24-th of September (Friday)	
Plenary session	09.45-12.30
Summary of Forum results, closing of the Forum	12.30-13.00
Lunch	13.00-14.30
Departure of the Forum participants	14.30-15.00

*III International Scientific Forum “Nuclear Science and Technologies”
dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan*

PLENARY REPORTS

20 September (Monday)

Morning session (9.30 – 13.15)

Conference-hall of the Physical Unit

№	EVENT	Time Presentation form /section
	<p>OPENING OF THE III INTERNATIONAL SCIENTIFIC FORUM "NUCLEAR SCIENCE AND TECHNOLOGIES"</p> <ul style="list-style-type: none"> - Greeting: Ministry of Energy of the Republic of Kazakhstan (5 min) - Greeting: Ministry of Education and Science of the Republic of Kazakhstan (5 min) - Greeting: INP (5 min) - Greeting: JINR (5 min) - Greeting: NNC (5 min) - Greeting: KazNU (5 min) - Greeting: ENU (5 min) 	<p>9.30 – 10.00</p> <p>Online Online Offline Online Online Online</p>
Chairman: Karakozov Batyrzhan Kumekbaevich		
1.	<p>ACHIEVEMENTS AND THE PROSPECTS FOR DEVELOPMENT OF THE RSE INP FOR 2021-2025 <i>Karakozov Batyrzhan Kumekbaevich</i> RSE "Institute of Nuclear Physics" ME RK, Kazakhstan</p>	<p>10.00 - 10.30 Offline</p>
2.	<p>PROSPECTS FOR THE DEVELOPMENT OF NUCLEAR POWER IN THE REPUBLIC OF UZBEKISTAN <i>Sadikov Ilkham Ismailovich</i> Institute of Nuclear Physics of the Academy of Science of the Republic of Uzbekistan, Uzbekistan</p>	<p>10.30 - 11.00 Offline/Section 3</p>
3.	<p>RADIONUCLIDE THERAPY IN THE REPUBLIC OF KAZAKHSTAN, THE FIRST EXPERIENCE, THE PROSPECTS OF DEVELOPMENT <i>Belikhina Tatiana Ivanovna</i> KSE "Center for Nuclear Medicine and Oncology, Semey", Kazakhstan</p>	<p>11.00 - 11.30 Offline /Section 5</p>
COFFEE-BREAK		
Chairman: Burtabayev Nasurlla		
4.	<p>NEW CASES OF HALO IN ISOBAR-ANALOG STATES <i>Demyanova Alla Sergeevna</i> NRC Kurchatov Institute, RF</p>	<p>11.45 - 12.15 Offline/Section 1</p>
5.	<p>Analysis of change in the mechanical properties of the W-6Re alloy after ion irradiation <i>Kravchuk Konstantin Sergeevich</i> FGBNU TISNUM, RF</p>	<p>12.15 - 12.45 Offline/Section 2</p>
6.	<p>Study of the mechanisms of tritium migration and transformation in the natural environment <i>Lukashenko Sergey Nikolaevich</i> All-Russian Research Institute of Radiology and Agroecology, RF</p>	<p>12.45 - 13.15 Offline/Section 4</p>

LUNCH	13.15–14.30
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20 September (Monday)
Afternoon session (14.30 – 17.45)
Conference-hall of the Physical Unit

Chairman: Sadikov Ilham Ismailovich		
7.	CONTRIBUTION OF AKDENIZ UNIVERSITY TO EXPERIMENTAL NUCLEAR PHYSICS RESEARCH AND APPLICATIONS IN TURKEY: THE RESULTS OF PHOTONUCLEAR REACTIONS AND PHOTOFISSION <i>Boztosun İsmail</i> Akdeniz University, Faculty of Science, Department of Physics, Antalya, Turkey	14.30 - 15.00 Offline/Section 1
8.	EXPERIENCE IN APPLICATION OF NUCLEAR FORENSICS TECHNIQUES IN THE IAEA REGIONAL NUCLEAR FORENSICS TRAINING <i>Stebelkov Vladimir Alvianovich</i> NP "Laboratory for the Analysis of Microparticles", RF	15.00 - 15.30 Offline/Section 1
9.	INFORMATION TECHNOLOGIES BASED ON DNA. NANOBIOELECTRONICS <i>Lakhno Victor</i> Institute of Mathematical Problems of Biology RAS, Keldysh Institute of Applied Mathematics of Russian Academy of Sciences, RF	15.30 - 16.00 Offline/Section 5
COFFEE-BREAK		16.00–16.15
10.	OPTIC FIBERS AND SENSORS BASED ON THEM FOR APPLICATIONS IN NUCLEAR AND THERMONUCLEAR FACILITIES <i>Kashaykin Pavel Fedorovich</i> Institute of General Physics named after A.M. Prokhorov of the Russian Academy of Sciences of the Scientific Center for Fiber Optics named after E.M. Dianova, RF	16.15 - 16.45 Offline/Section 3
11.	THE B-PHYSICS ANOMALIES: OBSERVATIONS AND POSSIBLE EXPLANATIONS <i>Ivanov Mikhail Alekseevich</i> Joint Institute for Nuclear Research, Dubna 141980, Russia	16.45 - 17.15 Online/Section 1
12.	RADIATION EMBRITTLEMENT OF STRUCTURAL STEELS <i>Staltsov Maxim Sergeevich</i> MEPhI, RF	17.15 - 17.45 Online/Section 2

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PLENARY REPORTS

24 September (Friday)

Morning session (9.45 – 13.00)

Conference-hall of the Physical Unit

Chairman: Lakhno Victor		
13.	TRANSBOUNDARY TRANSFER OF URANIUM AND OTHER TOXIC ELEMENTS BY THE WATERS OF RIVERS FLOWING INTO KAZAKHSTAN FROM KYRGYZSTAN <i>Solodukhin Vladimir Petrovich</i> RSE INP, Kazakhstan	9.45 - 10.15 Offline/Section 4
14.	OPEN QUESTIONS IN STUDY OF ¹³C EXOTIC EXCITED STATES <i>Danilov Andrey Nikolaevich</i> NTC Kurchatov Institute, RF	10.15 - 10.45 Offline/Section 1
15.	FROM DEVELOPMENT TO INDUSTRIAL IMPLEMENTATION OF THE TECHNOLOGIES FOR PRODUCTION OF MEDICAL ISOTOPES AND RADIOPHARMACEUTICALS BASED ON THEM AT THE NUCLEAR REACTOR IRT-T OF THE TOMSK POLYTECHNIC UNIVERSITY <i>Nesterov Yevgeniy Alexandrovich</i> Tomsk Polytechnic University, RF	10.45 - 11.15 Online/Section 5
COFFEE-BREAK		11.15–11.30
16.	REDUCTION OF CO₂ EMISSIONS AT THE PROCESSING OF ORGANIC FUELS BY USE OF IONIZING RADIATION <i>Mustafayev Islam Israfiloglu</i> Institute of Radiation Problems of the Azerbaijan National Academy of Sciences, Azerbaijan	11.30 - 12.00 Online /Section 5
17.	ORGANIZATION OF THE SYSTEM OF RADIOECOLOGICAL MONITORING OF NUCLEAR POWER PLANTS OF THE RUSSIAN FEDERATION <i>Sanzharova Natalia Ivanovna</i> All-Russian Research Institute of Radiology and Agroecology, RF	12.00 - 12.30 Online/Section 4
SUMMARY OF THE CONFERENCE RESULTS. CLOSING OF THE CONFERENCE		12.30 - 13.00

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SECTION SESSIONS

Section 1– «Nuclear Physics» 21 September (Tuesday) Morning session (9.30 – 13.00) 5th ISTC-CERN-JINR-Kazakhstan Summer School on High Energy Physics, Accelerator Technologies, Nuclear and Radiation Physics, Nuclear Medicine Great Hall at the Physical Unit		
Chairs: Boztosun İ., Burtebayev N.		
№	EVENT	Time Presentation form / section
1.	RESONANT INTERACTION OF RARE OXYGEN ISOTOPES WITH HELIUM-4 <i>Nurmukhanbetova Aliya Kenzhegalievna</i> EnergeticCosmos Laboratory, Nazarbayev University, Nur-Sultan, Kazakhstan	09.30 - 09.45 offline
2.	1) JOINT REPORT STRUCTURE OF EXCITED STATES OF NUCLEI FOR TRANSITION REGION N=(89-91) OF DEFORMATIONS IN NUCLEI ¹⁵⁶Ho, ¹⁵⁸Ho, ¹⁶⁰Ho. ISOMERIA. F- FORBIDDEN TRANSITIONS <i>Stegailov Vladimir Ilich</i> Joint Institute for Nuclear Research, 141980, Dubna, Russian Federation 2)NUCLEI FORMED FROM ²³⁸U IRRADIATED BY SECONDARY GAMMA-RADIATION INITIATED BY ELECTRON BEAM (E = 60, 100, 140, 180 MeV) AND SECONDARY NEUTRON FIELD INITIATED BY PROTON BEAM (E = 660 MeV) <i>Stegailov Vladimir Ilich</i> Joint Institute for Nuclear Research, 141980, Dubna, Russian Federation	09.45 - 10.00 offline
3.	INVESTIGATION OF THE ^{7,6}H STATES IN ⁸He+d INTERACTION <i>Muzalevskii Ivan Alekseevich</i> Flerov Laboratory of Nuclear Reactions, JINR, 141980 Dubna, Russia Institute of Physics, Silesian University in Opava, 74601 Opava, Czech Republic	10.00 - 10.15 offline
4.	FISSILE NUCLEI ROTATION EFFECT IN ²³⁵U(n,γf) PROCESS <i>Berikov Daniyar Berikuly</i> Joint Institute for Nuclear Research, 141980 Dubna, Russia L.N. Gumilyov Eurasian National University, 010000 Nur-Sultan, Kazakhstan	10.15 - 10.30 offline
5.	CONTRIBUTION OF LOW-LAYING RESONANCE STATES TO THE CROSS-SECTION OF ¹¹Be NUCLEI HALO BREAKUP <i>Valiolda Dinara Salavatkyzy</i> al-Farabi Kazakh National University, Almaty, Kazakhstan Institute of Nuclear Physics, Almaty, Kazakhstan Joint Institute for Nuclear Research, Dubna, Russia	10.30 - 10.45 offline

6.	FOUR-NEUTRON DECAY CORRELATIONS <i>Sharov Pavel Germanovich</i> Flerov Laboratory of Nuclear Reactions, JINR, 141980 Dubna, Russia, Institute of Physics, Silesian University in Opava, 74601 Opava, Czech Republic	10.45 – 11.00 offline
COFFEE-BREAK		11.00 - 11.15
Chairs: Janseitov D.M., Demyanova A.S.		
7.	NEW ANALOG SPECTROMETER OF THE DGFRS2 SETUP FOR REAL-TIME SEARCHING OF ER-α AND α-α CORRELATED SEQUENCES IN HEAVY-ION INDUCED COMPLETE FUSION NUCLEAR REACTIONS <i>Tsyganov Yury Sergeevich</i> FLNR, JINR, 141980 Dubna, Moscow Region, Russia	11.15 - 11.30 offline
8.	TIME-OF-FLIGHT SYSTEM FOR MEASURING FISSION FRAGMENTS AT THE FACILITY MAVR <i>Aznabaev Dauren Talgatovich</i> Joint Institute for Nuclear Research, Dubna, Russia Institute of Nuclear Physics, Almaty, Kazakhstan al-Farabi Kazakh National University, Almaty, Kazakhstan	11.30 - 11.45 offline
9.	DETECTING SYSTEM SFiNx <i>Isaev Andrey Vladimirovich</i> Joint Institute for Nuclear Research, Dubna, Russia	11.45 - 12.00 offline
10.	STATUS OF THE NICA-MPD-PLATFORM <i>Roslon Krystian</i> Joint Institute for Nuclear Research, Dubna, Russia, Warsaw University of Technology, Warsaw Poland	12.00 – 12.15 online
11	SPECIFIC FEATURES OF ELASTIC SCATTERING OF α- PARTICLES ON LIGHT WEAKLY BINDED ${}^6\text{He}$ and ${}^6\text{Li}$ NUCLEI <i>Urazbekov Bakytzhan Azhitovich</i> Joint Institute for Nuclear Research, Dubna, Russia Institute of Nuclear Physics, Almaty, Kazakhstan	12.15-12.30 offline
12	MANIFESTATION OF THE ${}^9\text{Be}$ CLUSTER STRUCTURE IN NUCLEON TRANSFER MECHANISMS <i>Mendibayev Kairat Orazbayevich</i> Joint Institute for nuclear research, 141980 Dubna, Russia; Institute of Nuclear Physics, 050032 Almaty, Kazakhstan; al-Farabi Kazakh National University, 050040 Almaty, Kazakhstan	12.30-12.45 offline
13	SOFTWARE USE OF ENSDF NNDC DATA IN NUCLEAR- PHYSICAL CALCULATIONS <i>Dyachkov Vyacheslav Valer'evich</i> al-Farabi Kazakh National University, Almaty, Kazakhstan	12.45-13.00 offline
LUNCH		13.00–14.30

<p align="center">Section 1– «Nuclear Physics» 21 September (Tuesday) Afternoon session (14.30 – 19.00)</p> <p align="center">5th ISTC-CERN-JINR-Kazakhstan Summer School on High Energy Physics, Accelerator Technologies, Nuclear and Radiation Physics, Nuclear Medicine</p> <p align="center">Great Hall at the Physical Unit</p>		
Chairs: Uzikov Yu.N., Zholdybaev T.K.		
14	<p>STUDY OF THE EXCITED STATES OF ⁴⁶Ti and ⁴⁵Ti NUCLEI IN THE ⁴⁵Sc + ³He REACTION AT A ³He BEAM ENERGY OF 29 MeV</p> <p><i>Issatayev Talgat Ganiuly</i> Joint Institute for Nuclear Research, Dubna, Russia Institute of Nuclear Physics, 050032 Almaty Kazakhstan L.N. Gumilyov Eurasian National University, 010008 Nur-Sultan, Kazakhstan</p>	14.30-14.45 offline
15	<p>APPLICATION OF THE SIGNAL ACCUMULATION METHOD ALONG THE SPECTRUM TO THE PAMELA EXPERIMENTAL DATA</p> <p><i>Fedosimova Anastasiya Igorevna</i> Institute of Nuclear Physics, Kazakhstan, Almaty</p>	14.45-15.00 offline
16.	<p>DIGITAL ELECTRONICS 2.0 FOR CONSTRUCTION OF FULLY DIGITAL DATA COLLECTION AND PROCESSING SYSTEMS: FROM LABORATORIES TO MEGAPROJECTS</p> <p><i>Bredikhin Ivan Sergeevich</i> LLC "Gammatek", Russia, Moscow</p>	15.00-15.15 offline
17.	<p>CROSS SECTIONS FOR THE ¹⁴N(n,α)¹¹B REACTION IN THE MeV ENERGY REGION</p> <p><i>Chuprakov Igor Alexandrovich</i> Frank Laboratory of Neutron Physics, Joint Institute for Nuclear Research, Dubna 141980, Russia L.N. Gumilyov Eurasian National University, Nur-sultan 010000, Kazakhstan The Institute of Nuclear Physics, Ministry of Energy of the Republic of Kazakhstan, Almaty 050032, Kazakhstan</p>	15.15-15.30 offline
18	<p>DIGITAL SPECTROMETRY TRACT PROTOTYPE FOR THE GABRIELA DETECTORS ASSEMBLY</p> <p><i>Mukhin Roman Stanislavovich</i> Joint Institute for Nuclear Research, Russia, Dubna</p>	15.30-15.45 offline
19	<p>QUARKS IN NUCLEI: FROM NEUTRON HALO TO THE BOUNDARY OF NUCLEAR STABILITY</p> <p><i>Musulmanbekov Genis Gumkenovich</i> JINR, Dubna, Russia</p>	15.45-16.00 online
COFFEE-BREAK		16.00-16.15
Chairs: Izosimov I.N., Isadykov A.N.		
20	<p>INDIRECT METHODS IN NUCLEAR ASTROPHYSICS</p> <p><i>Bertulani Carlos Augusto</i> Texas A&M University, USA</p>	16.15-16.45 online

21	SUB-BARRIER HEAVY-ION FUSION REACTIONS WITHIN THE SUDDEN APPROXIMATION APPROACH <i>Vinitsky Sergey Ilich</i> Joint Institute for Nuclear Research, 141980 Dubna, Russia Peoples' Friendship University of Russia (RUDN University), 117198 Moscow, Russia	16.45-17.00 online
22	THEORETICAL AND APPLIED ASPECTS OF ENERGY CONVERSION IN ELECTRONICALLY CONTROLLED PLASMA INSTALLATIONS <i>Radenko Vitaly Vladimirovich</i> LLC NPK "New Energy", Samara, Russia	17.00-17.15 online
23	REACTIONS OF MULTI-NUCLON TRANSFERS AS A METHOD FOR OBTAINING NEUTRON-EXCESSIVE ISOTOPES OF HEAVY AND SUPER-HEAVY ELEMENTS <i>Saiko Vyacheslav Vladimirovich</i> G.N. Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, Dubna, Russia	17.15-17.30 online
24	DETERMINATION OF DIFFERENTIAL SECTION OF THE REACTION $pp \rightarrow \{pp\}, \pi^0$ <i>Baimurzinova Bota Serikkanovna</i> Joint Institute for Nuclear Research, Dubna, Russia L.N. Gumilyov Eurasian National University, Nur-Sultan, Kazakhstan	17.30-17.45 online
25	CHARGE DISTRIBUTIONS OF HEAVY FISSION PRODUCTS FROM $^{239}\text{Pu}(n_{th},f)$ REACTION <i>Abdullaeva Gayana Artoevna</i> Institute of Nuclear Physics, Academy of Science of the Republic of Uzbekistan, Tashkent	17.45-18.00 online
26	THE TOTAL NEUTRON CROSS SECTIONS FOR THE ELEMENTS N, O, Al AND Si AT THE ENERGY OF 14.1 MeV <i>Ikromkhonov Erkinjon Shokirjon oqli</i> Institute of Nuclear Physics, Tashkent, Uzbekistan	18.00-18.15 online
27	MAGNETIC CHARACTERISTICS OF POSITIVE PARITY STATES OF ^{156}Gd NUCLEUS <i>Usmanov Pazlitdin Nuritdinovich</i> Namangan Institute of Engineering and Technology, 160115, Namangan, Uzbekistan	18.15-18.30 online
28	CHARACTERISTICS OF VARIATIONS IN ELECTRIC FIELD AND FLUXES OF COSMIC RAYS IN SURFACE ATMOSPHERE IN THE REGION OF NUR-SULTAN <i>Morzabaev Aidar Kaparovich</i> Institute of Nuclear Physics, 050032, Almaty, Kazakhstan L.N. Gumilyov Eurasian National University, Nur-Sultan, Kazakhstan	18.30-18.45 online
29	GAMMA SPECTROMETER FROM $9\text{x}\text{CeBr}_3\text{-NaI(Tl)}$ PHOSWICH DETECTORS <i>Zeynulla Zhassulan</i> Joint Institute for Nuclear Research, 141980, Dubna, Russia; Institute of Nuclear Physics, Almaty, Kazakhstan	18.45-19.00 online
POSTERS PRESENTATION		16.00-18.00
GALA DINNER		19.00-22.00

<p align="center">Section 1– «Nuclear Physics» 22 of September (Wednesday) Morning session (9.30 – 13.00)</p> <p align="center">5th ISTC-CERN-JINR-Kazakhstan Summer School on High Energy Physics, Accelerator Technologies, Nuclear and Radiation Physics, Nuclear Medicine</p> <p align="center">Great Hall at the Physical Unit</p>		
<p align="center">Chairs: Nikolskiy Ye.Yu., Lebedev I.A.</p>		
1.	<p>SHORT-RANGE NN CORRELATIONS AND QUASI-DEUTERON CLUSTERS IN THE ¹²C IN THE REACTION ¹²C+p→¹⁰A+ pp+N</p> <p><i>Uzikov Yury Nikolaevich</i> DLNP, Joint Institute for Nuclear Researches, Dubna, Russia; Physics Department of M.V. Lomonosov Moscow State University, Moscow, Russia; Dubna State University, Dubna, Russia</p>	<p>9.30 - 10.00 offline</p>
2.	<p>B MESON RARE DECAYS</p> <p><i>Issadykov Aidos Nurlanovich</i> The Institute of Nuclear Physics, 050032, Almaty, Kazakhstan Joint Institute for Nuclear Research, 141980, Dubna, Russia</p>	<p>10.00 - 10.30 offline</p>
3.	<p>NON-STATISTICAL EFFECTS IN BETA & GAMMA DECAYS AND BETA-DELAYED FISSION ANALYSIS</p> <p><i>Izosimov Igor Nikolaevich</i> Joint Institute for Nuclear Research, Dubna, Russia</p>	<p>10.30 - 11.00 offline</p>
<p align="center">COFFEE-BREAK</p>		<p align="center">11.00 - 11.15</p>
<p align="center">Chairs: Danilov A.N., Issatov A.T.</p>		
4.	<p>STUDY OF ONE-PROTON PICKUP REACTION ²H(¹⁰Be, ³He)⁹Li WITH 44 AMeV ¹⁰Be RADIOACTIVE BEAM AT ACCULINNA-2 FRAGMENT-SEPARATOR</p> <p><i>Nikolskii Evgueni Yurevich</i> Flerov Laboratory of Nuclear Reactions, JINR, 141980 Dubna, Russia National Research Centre “Kurchatov Institute”, Kurchatov sq. 1, 123182 Moscow, Russia</p>	<p>11.15 - 11.45 offline</p>
5.	<p>AXIALLY SYMMETRIC PARTICLELIKE SOLUTIONS IN PROCA-HIGGS THEORY</p> <p><i>Dzhunushaliev Vladimir Dzhumakadyrovich</i> Department of Theoretical and Nuclear Physics, Al-Farabi Kazakh National University, Almaty 050040, Kazakhstan Institute of Nuclear Physics, Almaty 050032, Kazakhstan</p>	<p>11.45-12.15 online</p>
6.	<p>COLLECTIVE FORMATION OF SECONDARY PARTICLES IN INTERACTIONS OF ASYMETRIC NUCLEI</p> <p><i>Lebedev Igor Alexandrovich</i> LLP Physical-Technical Institute, Almaty, Kazakhstan</p>	<p>12.15-12.30 offline</p>
7.	<p>STUDY OF FISSION OF ¹⁷⁸Pt AND ^{180,182}Hg FORMED IN THE REACTIONS WITH HEAVY IONS AT ENERGIES AROUND THE COULOMB BARRIER</p> <p><i>Mukhamejanov Yerzhan Serikovich</i> Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, Dubna, 141980 Russia Institute of Nuclear Physics, Almaty, 050032 Kazakhstan al-Farabi Kazakh National University, Almaty, 050040 Kazakhstan</p>	<p>12.30-12.45 offline</p>

8.	INVESTIGATION OF THE PROTON TRANSFER REACTION $^{12}\text{C}(^{10}\text{B},^9\text{Be})^{13}\text{N}$ AT 41.3 MeV FOR $^{12}\text{C}(p,\gamma)^{13}\text{N}$ S-FACTOR AND REACTION RATE CALCULATION <i>Ergashev Feruzjon Kholmamatovich</i> Institute of Nuclear Physics, Tashkent, Uzbekistan	12.45-13.00 offline
9	VIRTUAL VISIT TO CMS DETECTOR	13.00–14.00
LUNCH		14.00–15.00
<p>Section 1– «Nuclear Physics» 22 of September (Wednesday) Afternoon session (15.00 – 18.30) 5th ISTC-CERN-JINR-Kazakhstan Summer School on High Energy Physics, Accelerator Technologies, Nuclear and Radiation Physics, Nuclear Medicine Great Hall at the Physical Unit</p>		
Chairs: Musulmanbekov J.J., Mukhamedjanov Ye.S.		
10	PROSPECTS FOR DEVELOPMENT OF A LARGE HADRON COLLIDER <i>Schaeffer Christian</i> CERN	15.00-15.30 online
11	BUILDING HEP ACCELERATORS - ENGINEERING CHALLENGES <i>Kurtyka Tadeusz</i> CERN	15.30-16.00 online
12	DISTRIBUTED COMPUTING AND BIG DATA TECHNOLOGIES FOR LARGE SCALE PROJECTS <i>Korenkov Vladimir Vasilievich</i> Joint Institute for Nuclear Research, Dubna 141980, Russia	16.00-16.30 online
Coffee-break		16.30-16.45
Chairs: Krassovitskiy P.M., Turakulov S.A.		
13.	ASTROPARTICLE PHYSICS AND MULTIMESSENGER ASTRONOMY <i>Kostunin Dmitriy</i> DESY, Zeuthen, D-15738, Germany	16.45-17.15 online
14.	WEAK FACTORIZABLE DECAYS OF DOUBLY HEAVY BARYON <i>Tyulemissov Zhomart Zhanatovich</i> Institute of Nuclear Physics, Kazakhstan, Almaty	17.15-17.30 online
14.	STUDY OF THE FORMATION AND DECAY PROPERTIES OF THE NEUTRON-DEFICIENT ISOTOPES No <i>Tezekbayeva Mereigul Sailaubayevna</i> Flerov Laboratory of Nuclear Reactions, JINR, Dubna, Russia Institute of Nuclear Physics, 050032, Almaty, Kazakhstan	17.30-17.45 offline
15	ASTROPHYSICAL S-FACTOR AND THE RATE OF $p+^7\text{Be}\rightarrow^8\text{B}+\gamma$ SYNTHESIS REACTION IN A TWO-PARTICLE MODEL <i>Turakulov Sobir Abdumuminovich</i> Institute of Nuclear Physics, the Academy of Sciences of the Republic of Uzbekistan, 100214, Tashkent, Uzbekistan	17.45-18.00 offline

16	NEW MEASUREMENTS AND THEORETICAL ANALYSIS FOR $^{13}\text{C}+^9\text{Be}$ ELASTIC TRANSFER <i>Yergaliuly Gani</i> L.N. Gumilyov Eurasian National University, Nur-Sultan, Kazakhstan	18.00-18.15 offline
17	DECAY RATES $\tau \rightarrow \text{K}^*(892)\eta\nu$ AND $\tau \rightarrow \text{K}^*(892)\text{K}\nu$ IN THE NJL MODEL <i>Nurlan Kanat</i> Joint Institute for Nuclear Research, Dubna 141980, Russia Institute of Nuclear Physics, 050032 Almaty, Kazakhstan al-Farabi Kazakh National University, Almaty, 050040 Kazakhstan	18.15-18.30 offline
POSTERS PRESENTATION		16.00-18.00

**III International Scientific Forum “Nuclear Science and Technologies”
dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan**

Section 2 – «Materials Science and Radiation Solid State Physics»

21 September (Tuesday)

Morning session (9.30 – 13.00)

Large Conference Hall of the Administrative Unit

Chairman: Kozlovskiy Artem Leonidovich

№	EVENT	Time Presentation form / section
1.	TITANIUM BERYLLIDE AS AN ALTERNATIVE TO BERILLIUM IN NUCLEAR AND THERMONUCLEAR TECHNOLOGY. POSSIBILITIES OF UMP JSC IN DEVELOPMENT OF TECHNOLOGY AND MANUFACTURING OF PRODUCTS FROM BERYLLIDES <i>Udartsev Sergey Vyacheslavovich</i> JSC "Ulba Metallurgical Plant", Ust-Kamenogorsk, Republic of Kazakhstan	09.30 - 09.45 offline
2.	KINETICS OF HELIUM DESORPTION FROM STEEL 12CR18NI10TI UNDER DIFFERENT SATURATION CONDITIONS <i>Akaev Serik Omarbekovich</i> Institute of Nuclear Physics, ME RK Kazakhstan, Almaty	09.45 - 10.00 offline
3.	EVOLUTION OF THE SURFACE STRUCTURE OF PROTON-IRRADIATED TUNGSTEN DURING ISOCHRONIC ANNEALING IN THE TEMPERATURE RANGE 600 – 1000 °C <i>Kislitsin Sergey Borisovich</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	10.00 - 10.15 offline
4.	CHANGES IN THE STRUCTURE OF EK-181 STEEL CAUSED BY IRRADIATION BY CRYPTON IONS AT THE TEMPERATURE 350 °C <i>Dikov Alexey Sergeevich</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	10.15 - 10.30 offline
5.	PHASE INSTABILITY IN STEEL 12Cr18Ni10Ti IRRADIATED WITH HIGH-ENERGY PARTICLES <i>Merezhko Diana Asylbekovna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	10.30 - 10.45 offline
6.	LOCALIZATION OF PLASTIC DEFORMATION IN CYLINDRICAL SAMPLES OF COPPER AND AUSTENIC STEELS 12Cr18Ni10Ti AND AISI 304 IRRADIATED BY NEUTRONS <i>Merezhko Mikhail Sergeevich</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	10.45 – 11.00 offline
COFFEE-BREAK		11.00-11.15
Chairman: Kozlovskiy Artem Leonidovich		
7.	CHANGE IN MICROSTRUCTURE AND CORROSION PROPERTIES OF THE SAV-1 REACTOR ALLOY AFTER LONG-TERM NEUTRON IRRADIATION AND POST-RADIATION THERMAL AGING <i>Tsay Kira Viktorovna</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	11.15 - 11.30 offline

8.	INFLUENCE OF NEUTRON RADIATION ON PROPENSION TO CORROSION UNDER PERMANENT LOAD OF AUSTENITIC STEEL 12Cr18Ni10Ti IN DIFFERENT STRUCTURAL-PHASE STATE <i>Yarovchuk Alevtina Vasilievna</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	11.30 - 11.45 offline
9.	RADIOTERMOLUMINESCENCE OF γ-IRRADIATED NANOCOMPOSITES <i>Kuliev Musafir Mazahir oglu</i> Institute of Radiation Problems of ANAS	11.45 - 12.00 offline
10.	NANO- AND MICRO- SCALE PHONON HEAT TRANSPORT IN SWIFT HEAVY ION IRRADIATED INSULATORS <i>Zhandos Utegulov</i> Department of Physics, School of Sciences and Humanities, Nazarbayev University, Nur-Sultan, Kazakhstan	12.00 – 12.15 offline
11.	INFLUENCE OF THE MICROSTRUCTURE OF POSITIVE AND NEGATIVE ELECTRODES OF LITHIUM-ION BATTERIES ON THEIR FUNCTIONAL CHARACTERISTICS <i>Erdauletov Meyir</i> Joint Institute for Nuclear Research, Russia	12.15– 12.30 offline
12.	DELOCALIZATION OF ELECTRONS ON SURFACE OF SILICON NANOPARTICLES <i>Mukhtarov Adil Pozilovich</i> Institute of Nuclear Physics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan	12.30-12.45 offline
13.	ORGANIZATION OF PHYSICAL AND CHEMICAL PROCESSES IN THE PORE SPACE OF LAVO-LIKE FUEL-CONTAINING MATERIALS OF BLOCK 4 OF THE CHERNOBYL NPP <i>Gabelkov Sergey Vladimirovich</i> Institute for Safety Problems of Nuclear Power Plants, National Academy of Sciences of Ukraine, Chernobyl, Ukraine	12.45-13.00 online
LUNCH		13.00-14.30

Section 2 – «Materials Science and Radiation Solid State Physics» 21 September (Tuesday) Afternoon session (14.30 – 18.00) Large Conference Hall of the Administrative Unit		
Chairman: Kislitsin Sergey Borisovich		
14.	STUDY OF MECHANISMS OF RADIATION DAMAGES IN ALUMINUM NITRIDE <i>Kozlovskiy Artem Leonidovich</i> Institute of Nuclear Physics of ME RK, Almaty, Kazakhstan	14.30-14.45 offline
15.	STUDY OF SURFACE PARAMETERS OF A LAYERED MONO CRYSTAL GaSe UNDER IRRADIATION WITH γ- QUANTS ON ACM <i>Sadygly Lamia Elhan</i> Institute of Radiation Problems, Azerbaijan Academy of Sciences Baku, Azerbaijan	14.45-15.00 online
16.	DIELECTRIC PROPERTIES OF THE GAMMA-IRRADIATED NANOCOMPOSITES BASED ON POROUS POLYETHYLENE TEREPHTHALATE <i>Nuriev Musa Abdulalioglu</i> Institute of Radiation Problems of the National Academy of Sciences of Azerbaijan	15.00-15.15 online
17.	RADIATION-THERMOCATALYTIC PROCESSES OF WATER DECOMPOSITION ON THE SURFACE OF NANO-ZrO₂ + NANO-SiO₂ SYSTEMS <i>Agayev Teimour Nematulla</i> Institute of Radiation Problems of ANAS, Azerbaijan	15.15-15.30 online
18.	DIELECTRIC PROPERTIES OF γ-IRRADIATED COMPOSITES <i>Nabieva Aysel Nemat</i> Institute of Radiation Problems of the National Academy of Sciences of Azerbaijan	15.30-15.45 online
19.	CHANGE IN THE ELECTRICAL PROPERTIES OF GaS <Yb> UNDER IRRADIATION WITH GAMMA QUANTS <i>Khaligzade Aidan Shahin</i> Institute of Radiation Problems of the National Academy of Sciences. 370143, Baku, Azerbaijan	15.45-16.00 online
COFFEE-BREAK		16.00-16.15
Chairman: Kislitsin Sergey Borisovich		
20.	STUDY OF NEW COMPOSITE THERMOREGULATING COATINGS IN THE VACUUM UV REGION <i>Arutyunyan Vachagan Viktorovich</i> A. Alkhanyan National Scientific Laboratory, Yerevan, Armenia	16.15-16.45 online
21.	SWIFT HEAVY ION IRRADIATION INDUCED LATENT TRACKS IN NANOCRYSTALLINE Y₄Al₂O₉ <i>Mutali Alisher</i> L.N. Gumilyov Eurasian National University, 010000 Nur-Sultan, Kazakhstan, mutali@jinr.ru	16.45-17.00 online

22.	PHOTOLUMINESCENCE OF MgAl₂O₄ IRRADIATED WITH HIGH ENERGY HEAVY IONS <i>Mamatova Meruert</i> Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, 6 Joliot-Curie Str., Dubna, Russia	17.00-17.15 online
23.	COMBINED STUDY OF LIPID BILAYERS BY RAMAN SPECTROSCOPY, NEUTRON SCATTERING AND MD SIMULATION: THE COMPETITIVE EFFECT OF CHOLESTEROL AND MELATONIN <i>Arynbek Ersultan</i> Frank Lab of Neutron Physics, Joint Institute for Nuclear Research, Dubna, Russian Federation	17.15-17.30 online
24.	STATE OF CRYSTALLINE PHASES OF LAVO-LIKE FUEL-CONTAINING MATERIALS OF BLOCK 4 OF THE CHERNOBYL NPP <i>Zhiganyuk Igor Viktorovich</i> Institute for Safety Problems of Nuclear Power Plants, National Academy of Sciences of Ukraine, Chernobyl, Ukraine	17.30-17.45 online
POSTERS PRESENTATION		16.00-18.00
GALA DINNER		19.00-22.00

Section 2 – «Materials Science and Radiation Solid State Physics» 22 September (Wednesday) Morning session (9.30 – 13.00) Large Conference Hall of the Administrative Unit		
Chairman: Khromushin Igor Valerievich		
1.	REMOVAL EFFICIENCY OF VARIOUS CLASSES OF TOXIC CONTAMINANTS BY COMPOSITE TRACK-ETCHED MEMBRANES WITH DEPOSITED COPPER MICROTUBES <i>Alтынbaева Lilia Sharifullova</i> The Institute of Nuclear Physics of the Republic of Kazakhstan, Almaty, Kazakhstan	09.30 - 09.45 offline
2.	SrTiO₃-BASED PHOTOCATALYSTS FOR HYDROGEN PRODUCTION <i>Kenzhebaeva Adelya Akmaralovna</i> Institute of Combustion Problems, Almaty, Republic of Kazakhstan	09.45 - 10.00 online
3.	ETCHING OF TRACKS IN SILICON OXIDE AND NITRIDE AND STUDY OF THE MORPHOLOGY OF NANOPOROUS LAYERS FORMED BY BTI IRRADIATION <i>Murzalinov Danatbek Ongarbekovich</i> LLP "Physical-Technical Institute", Almaty, Kazakhstan	10.00 - 10.15 offline
4.	STUDY OF NEUTRON RADIATION INFLUENCE ON THE STRUCTURAL AND ELECTROPHYSICAL PARAMETERS OF HETEROSTRUCTURAL SEMICONDUCTORS <i>Yskakov Almas Azamatuly</i> Joint Institute for Nuclear Research, Dubna, Russia	10.15 - 10.30 offline

5.	SYNTHESIS OF CH₃NH₃PbI₃ HYBRID PEROVSKITE CRYSTALS FOR FORMATION OF THEIR THIN FILMS BY FLASH EVAPORATION METHOD <i>Dyusembekova Saule Bolatzhanovna</i> State University "Dubna", Dubna, Russia	10.30 - 10.45 offline
6.	FORMATION AND EVOLUTION OF DEFECTS OF RADIATION-DOPED SiC */Si HETEROSTRUCTURE <i>Dolgoplov Mikhail Viacheslavovich</i> Samara State Technical University, Samara, Russia	10.45 – 11.00 online
COFFEE-BREAK		11.00-11.15
Chairman: Khromushin Igor Valerievich		
7.	SOLVING MAJOR CHALLENGES FOR ADVANCED REACTORS: COUPLED EFFECTS AND RADIATION DAMAGE MEASUREMENT <i>Short Philip Short</i> MIT, USA	11.15 - 12.00 offline
8.	MODERN STRUCTURAL MATERIALS IN NUCLEAR ENERGY AND SAFETY IMPROVEMENT <i>Guseynova L.R.</i> VKGK, Semey, Kazakhstan	12.00-12.15 offline
9.	THEORETICAL ASPECTS OF DIRECT CONVERSION OF RADIO-CHEMICAL ENERGY IN ELECTRIC BY RADIATION-STIMULATED SiC */Si HETEROSTRUCTURE <i>Gurskaya Laura Ruslanovna</i> Samara State Technical University, Samara, Russia	12.15-12.30 online
10.	INFLUENCE OF PRELIMINARY HEAT TREATMENT ON THE SPECTRA OF DIFFUSE REFLECTION (DO) OF STEATITE CERAMICS SNZ <i>Saidakhmedov Kakhramon Khusanovich</i> Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan, Tashkent	12.30-12.45 online
11.	LUMINESCENCE OF GSO CRYSTALS IRRADIATED BY IONIZING RADIATION <i>Saidakhmedov Kakhramon Khusanovich</i> Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan, Tashkent	12.45-13.00 online
LUNCH		13.00-14.30

Section 2 – «Materials Science and Radiation Solid State Physics» 22 September (Wednesday) Afternoon session (14.30 – 18.00) Large Conference Hall of the Administrative Unit		
Chairman: Tuleushev Yuri Zhainshakhovich		
12.	STRUCTURAL-PHASE STATE OF MULTILAYER CO-CR-AL-Y COATINGS <i>Zhilkashinova Asel Mikhailovna</i> Sarsen Amanzholov East Kazakhstan University, Ust-Kamenogorsk, Kazakhstan	14.30-14.45 online
13.	NEUTRONOGRAPHIC STUDY OF ALLOY Ti_{1-x}Mo_xC <i>Parpiev Adhamjon Sobirzhanovich</i> Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan	14.45-15.00 online
14.	Influence of accelerated electrons on the surface, structure, and raman spectrum of a TlInSSe single crystal <i>Khallokov Farhod Karimovich</i> Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan	15.00-15.15 online
15.	INFLUENCE OF GAMMA RADIATION ON LOW DENSITY POLYETHYLENE SURFACE TOPOGRAPHY <i>Ismatov Normamat Beknazarovich</i> Institute of Nuclear Physics of the Academy of Sciences of the Republic of Uzbekistan, 100214, Tashkent, Uzbekistan	15.15-15.30 online
16.	REAL AND PECULIAR ISOTOPE EFFECTS ON THE CRITICAL TEMPERATURE OF THE SUPERCONDUCTING TRANSITION IN HIGH-T_c CUPRATES <i>Dzhumanov Sherzod Safaralievich</i> Institute of Nuclear Physics, Uzbek Academy of Sciences, Ulugbek, Tashkent, Uzbekistan	15.30-15.45 online
17.	NANOSCALE PHASE SEPARATION AND SUPPRESSION OF SUPERCONDUCTIVITY OF HIGH-T_c CUPRATES <i>Kurbanov Ulugbek Tazhibaevich</i> Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent, Uzbekistan	15.45-16.00 online
COFFEE-BREAK POSTERS PRESENTATION		16.00-18.00

**III International Scientific Forum “Nuclear Science and Technologies”
dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan**

**Section 3 – «Atomic Energy»
21 September (Tuesday)
Morning session (9.30 – 13.00)
Small conference hall of the Physical Unit**

Chairs: Nakipov D.A., Gizatulin Sh.Kh.

№	EVENT	Time Presentation form / section
1.	WWR-K RESEARCH REACTOR COMPLEX <i>Shaimerdenov Asset Abdullaevich</i> Institute of Nuclear Physics, Almaty, Kazakhstan	09.30-9.45 Offline
2.	METHODOLOGY OF MANUFACTURING OF TIN-LITHIUM EUTECTIC TEST SAMPLES WITH DIFFERENT LITHIUM CONTENT IN THE ALLOY <i>Ponkratov Yuriy Valentinovich</i> Institute of Atomic Energy, NNC RK, Kurchatov, Kazakhstan	9.45-10.00 Offline
3.	DETERMINATION OF THE DIFFUSION PARAMETERS OF TRITIUM IN MATERIALS DURING EXPERIMENTS WITH VARIABLE REACTOR POWER <i>Kulsartov Timur Valikhanovich</i> al-Farabi Kazakh National University, Almaty, Kazakhstan	10.00-10.15 Offline
4.	MEASUREMENT OF THERMAL NEUTRON FLUXES FROM THE WWR-K RESEARCH REACTOR <i>Mukhamejanov Yerzhan Serikovich</i> Institute of Nuclear Physics, Almaty, Kazakhstan al-Farabi Kazakh National University, Almaty, Kazakhstan Flerov Laboratory of Nuclear Reactions, Joint Institute for Nuclear Research, Dubna, Russia	10.15-10.30 Offline
5.	INTEGRATION OF THE DIFFERENTIAL EVOLUTION ALGORITHM AND THE MONTE CARLO CODE TO CREATE A SPECTROMETRIC DETECTOR MODEL <i>Prozorova Irina Valentinovna</i> Institute of Atomic Energy, NNC RK, Kurchatov, Kazakhstan	10.30-10.45 Offline
6.	NUCLEI FORMED FROM TARGETS OF MINOR ACTINIDES IRRADIATED BY A PROTON BEAM (E_P=660 MeV) <i>Rasulova Fazilat Abduvalievna</i> Institute of Nuclear Physics, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan	10.45-11.00 offline
COFFEE-BREAK		11.00-11.30
Chairman: Gordienko Yu.N.		
7.	PROCESSING OF EXPERIMENTAL RESULTS OF LITHIUM CPS TESTS UNDER REACTOR IRRADIATION CONDITIONS <i>Askerbekov Saulet Kanybekuly</i> L.N. Gumilyov Eurasian National University, Nur-Sultan, Kazakhstan Institute of Nuclear Physics, Almaty, Kazakhstan	11.30-11.45 Offline

8.	MEASUREMENT OF THE SPATIAL-ENERGY DISTRIBUTION OF NEUTRONS IN THE IRRADIATION CHANNEL OF THE CRITICAL FACILITY <i>Dyussambayev Daulet Serikovich</i> Institute of Nuclear Physics, Almaty, Kazakhstan	11.45-12.00 Offline
9.	DEVELOPMENT OF CAMPAIGN CONTROL SCENARIOS FOR THE FUEL OF THE IVG.1M REACTOR WITH LEU FUEL <i>Zhanbolatov Olzhas Muratbekovich</i> Institute of Atomic Energy, NNC RK, Kurchatov, Kazakhstan	12.00-12.15 Online
10.	PERSONAL NEUTRON DOSIMETRY AT RESEARCH NUCLEAR RECTOR <i>Pyshkina Mariya Dmitrievna</i> Ural Federal University named after the first President of Russia B. N. Yeltsin, Yekaterinburg, Russia Institute of Industrial Ecology of the Ural Branch RAS	12.15-12.30 Online
11.	NEUTRON-PHYSICAL CHARACTERISTICS ESTIMATION OF THE SUBCRITICAL ASSEMBLY «YALINA-THERMAL» WITHIN THE PHYSICAL BIRTH-AND-DEATH MODEL <i>Zubareva Mariya Vladimirovna</i> State Scientific Institution “The Joint Institute for Power and Nuclear Research – Sosny, Minsk, Belarus	12.30-12.45 Online
LUNCH		13.00–14.00
Section 3 – «Atomic energy» 21 September (Tuesday) Afternoon session (14.00 – 16.00) Small conference hall of the Physical Unit		
Chairman: Chikh-ray E. V.		
12.	DYNAMIC PROPERTIES ON ⁹⁹MO ADSORPTION AND ^{99m}Tc ELUTION WITH ALUMINA COLUMNS <i>Yoshitaka Fujita</i> Japan Atomic Energy Agency, 4002, Narita, Oarai, Higashiibaraki, Ibaraki 311-1393, Japan Nagaoka University of Technology, 1603-1 Kamitomioka, Nagaoka, Niigata 940-2188, Japan	14.00-14.15 Online
13.	THE ITER PROJECT - THE WAY TO FUSION ENERGY <i>Mario Merola</i> ITER Organization, Route de Vinon sur Verdon, CS 90 046, 13067 Saint Paul-lez-Durance Cedex, France	14.15-14.30 Online
14.	SOME RESULTS OF THE INVESTIGATION OF THE DYNAMICS OF THE IBR-2M PULSED REACTOR WITH ENERGY PRODUCTION UP TO 1800 MW·DAY <i>Vinogradov Alexander Vitalievich</i> Joint Institute for Nuclear Research, Laboratory of Neutron Physics, Dubna, Russia	14.30-14.45 Online
15.	RESEARCH IN THE FIELD OF ELECTRICAL NUCLEAR SYSTEMS IN JINR, PRESENT AND FUTURE <i>Tyutyunnikov Sergey Ivanovich</i> Joint Institute for Nuclear Research, Dubna, Russian Federation	14.45-15.00 Online

16.	DYNAMICS OF THE IBR-2M REACTOR NOISE <i>Pepelyshev Yuriy Nikolaevich</i> Joint Institute for Nuclear Research, Dubna, Russia	15.00-15.15 Online
COFFEE-BREAK		15.30-16.00
POSTERS PRESENTATION		16.00-18.00
GALA DINNER		19.00-22.00

<p>III International Scientific Forum “Nuclear Science and Technologies” dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan</p> <p>Section 4 – «Radiation Ecology and Methods of Analysis» 21 September (Tuesday) Morning session (9.30 - 13.00) Great Hall of the Training Center</p>		
Chairs: Gluchshenko V.N., Lukashenko S.N.		
1.	ACTIVITIES OF THE INSTITUTE OF NUCLEAR PHYSICS IN THE FIELD OF RADIATION ECOLOGY <i>Gluchshenko Viktor Nikolaevich</i> Institute of Nuclear Physics, Almaty, Kazakhstan	9.30-9.45 offline
2.	APPLICATION OF LASER SPECTROSCOPY AND MASS SPECTROMETRY FOR TRACE ANALYSIS <i>Izosimov Igor Nikolaevich</i> Joint Institute for Nuclear Research, Dubna, Russian Federation	9.45-10.00 offline
3.	WALL PAINTING OF THE SMOLENSKY CATHEDRAL OF THE NOVODEVICHY MONASTERY IN MOSCOW: NEW DATA ON PAINTING IN THE LIGHT OF PHYSICO-CHEMICAL RESEARCH IN 2020-2021 <i>Philippova Olga Sergeevna¹, Makarova Anna Lvovna^{2,3}, Dmitriev Andrey Yuryevich¹</i> ¹ Joint Institute for Nuclear Research, Dubna, Russia ² Interregional Agency for Scientific Restoration of Works of Art, Moscow, Russia ³ HSE University, Moscow, Russia	10.00-10.15 offline
4.	ANALYTICAL METHOD DEVELOPMENT FOR THE JOINT PU, U, AND TC SEPARATION AND DETERMINATION OF FROM NATURAL WATER SAMPLES <i>Kuzmenkova Natalia Viktorovna</i> Lomonosov Moscow State University, Russia	10.15-10.30 offline
5.	TO THE ISSUE OF PLUTONIUM ISOTOPES CONTENT IN SOILS OF RADIATION HAZARDOUS FACILITIES POTENTIAL INFLUENCE ZONES <i>Edomskaya Mariya Alexandrovna</i> Russian Institute of Radiology and Agroecology, Obninsk, Russian Federation	10.30-10.45 offline

6.	RADIOLOGICAL STATE OF SURFACE AND UNDERGROUND WATERS IN THE AREAS OF URANIUM TAILINGS DUMPS OF THE KYRGYZ REPUBLIC <i>Tuzova Tamara Vasilievna</i> Institute of water problems and hydropower, Kyrgyzstan	10.45-11.00 online
COFFEE-BREAK		11.00-11.15
7.	GEOCHEMICAL PURITY OF SOILS IN MOUNTAIN PART OF THE ZARAFSHON RIVER BASIN <i>Abdushukurov Djamshed Alievich</i> Institute of water problems, hydropower engineering and ecology , Tajikistan	11.15-11.30 online
8.	TIME-OF-FLIGHT MASS SPECTROMETERS BASED ON TRANSAXIAL MIRRORS <i>Spivak-Lavrov Igor Feliksovich</i> K. Zhubanov Aktobe regional university, Kazakhstan	11.30-11.45 offline
9.	STUDIES OF THE CONTENT OF RADIONUCLIDES IN THE AIR OF THE STEPPE ZONE OF THE REPUBLIC OF KAZAKHSTAN <i>Turchenko Denis Vladimirovich</i> The Institute of Radiation Safety and Ecology, Kazakhstan	11.45-12.00 online
10.	ASSESSMENT OF THE TRITIUM CONTAMINATION LEVELS IN THE VEGETATION COVER AT THE SITES OF UNDERGROUND NUCLEAR TESTS ON THE TERRITORY OF THE SEMPALATINSK TEST SITE (STS) <i>Polivkina Yelena Nikolaevna</i> The Institute of Radiation Safety and Ecology, Kazakhstan	12.00-12.20 online
11.	RESEARCH ON THE PRODUCTION OF GADOLINIUM OXIDE FROM THE WASTE TECHNOLOGY OF PROCESSING URANIUM-GADOLINIUM-CONTAINING MATERIALS <i>Dorn Anna Alexandrovna</i> Ulba metallurgical plant JSC, Kazakhstan	12.20-12.35 offline
12.	ELIMINATION OF EMERGENCIES WITH HIGHLY ACTIVE SOURCES IONIZING RADIATION COBALT-60 <i>Ashrapov Ulugbek Tovfikovich</i> Institute of Nuclear Physics of Republic Uzbekistan	12.35-12.50 offline
13.	RESEARCH INTO DEPENDANCIES, DESCRIBING PECULARITIES OF MIGRATIONS OF ARTIFICAIL RADIONUCLIDES IN «SOIL-PLANT» SYSTEM AT RADIOACTIVELY-CONTAMINATED TERRITORY OF THE STS. <i>Ponomaryova Tatyana Sergeevna</i> The Institute of Radiation Safety and Ecology, Kazakhstan	12.50-13.00 offline
Lunch		13.00-14.30
Section 4– «Radiation Ecology and Methods of Analysis» 21September (Tuesday) Afternoon session (14.30 – 17.00) Great Hall of the Training Center		
Chairman: Izosimov I.N., Stebelkov V.A.		

14.	DETERMINATION OF THE RADIONUCLIDE COMPOSITION AND RADIATION EFFECT OF EMISSIONS FROM RUSSIAN NPPs <i>Ekidin Aleksey Akimovich</i> Institute of Industrial Ecology of RAS, Russian Federation	14.30-14.45 online
15.	EXPERIENCE OF PRE-OPERATIONAL SURVEYS OF THE TERRITORIES WHERE NUCLEAR FACILITIES ARE LOCATED (ON THE EXAMPLE OF THE BELARUSIAN NPP) <i>Vasilyev Aleksey Vladimirovich</i> Institute of Industrial Ecology of RAS, Russian Federation	14.45-15.00 online
16.	CONTENT OF ELEMENTS AND ARTIFICIAL RADIONUCLIDES IN POTENTIAL SOURCES OF DRINKING WATER ON THE TERRITORY OF THE SEMPALATINSK TEST SITE <i>Gorlachev Igor Dmitriyevich</i> Institute of Nuclear Physics, Almaty, Kazakhstan	15.00-15.15 offline
17.	IMPLEMENTATION OF MEASURES TO REDUCE THE LIRA OBJECT INTO A SAFE STATE <i>Ageyeva Tatyana Ivanovna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	15.15-15.30 online
18.	NANOSILVER-CONTAINING ION EXCHANGE FIBERS FOR WASTEWATER TREATMENT FROM HEAVY METALS AND RADIONUCLIDES <i>Khaydarov Renat Rashidovich</i> Institute of Nuclear Physics of Republic Uzbekistan AS, Uzbekistan	15.30-15.45 online
19.	RADIATION TECHNOLOGIES FOR INDUSTRIAL ENTERPRISES <i>Ashrapov Ulugbek Tovfikovich</i> Institute of Nuclear Physics of Republic Uzbekistan AS, Uzbekistan	15.45-16.00 offline
20.	PRISMATIC MASS SPECTROGRAPH WITH CONE-SHAPED ACHROMATIC PRISM AND TRANSAXIAL LENSES <i>Shugayeva Tilektes Zhalgasovna</i> K. Zhubanov Aktobe regional university, Kazakhstan	16.00-16.15 offline
21.	DETERMINATION OF THE CONTENT OF IMPURITY ELEMENTS IN A SAMPLE OF HIGH PURITY INDIUM BY THE METHOD OF RADIOCHEMICAL NEUTRON ACTIVATION ANALYSIS <i>Yarmatov Bakhrom Khaydarovich</i> <i>Institute of Nuclear Physics of Republic Uzbekistan AS, Uzbekistan</i>	16.15-16.30 offline
22.	DEVELOPMENT OF EPR DOSIMETRY OF HUMAN TOOTH ENAMEL IN A RANGE OF HIGH EXPOSURE DOSES FOR NNC OF RK <i>Biyakhmetova Dina Biyakhmetovna</i> The Institute of Radiation Safety and Ecology, Kazakhstan	16.30-16.45 offline
23.	MANUFACTURE OF MODELS FOR GRADUATING GAMMA SPECTROMETRIC EQUIPMENT TO ENSURE QUALITY CONTROL OF STUDIES OF SAMPLES WITH LOW ACTIVITIES <i>Mirkhaji Dilyara Valievna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	16.45-17.00 offline

Section 4 – «Radiation Ecology and Methods of Analysis» 22 September (Wednesday) Morning session (9.30 - 13.00) Great Hall of the Training Center		
Chairman: Solodukhin V.P., Dmitriev A.Y.		
1.	THE TOTAL ALPHA ACTIVITY OF WATER SAMPLES IN THE ALMATY REGION <i>Timurova Dana Bauyrzhankyzy</i> Institute of Nuclear Physics, Almaty, Kazakhstan	09.30-09.45 offline
2.	BIOINDICATION OF THE TERRITORIES ADJACENT TO THE "KAPUSTIN YAR" LANDFILL AND ECO GENETICALLY ASSESSMENT OF PUBLIC HEALTH <i>Bigaliyev Aitkhazha Bigaliyevich</i> al-Farabi Kazakh National University, Chair of Molecular Biology and Genetics, Almaty, Kazakhstan	09.45-10.00 online
3.	ASSESSMENT OF THE CONTRIBUTION OF THE LIRA OBJECTS TO THE FORMATION OF THE RADIOECOLOGICAL SITUATION OF THE ADJACENT TERRITORIES <i>Krasnopyorova Marina Vladimirovna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	10.00-10.15 offline
4.	THE AZGIR TEST SITE. HISTORY AND CURRENT STATE ACCORDING TO THE RESULTS OF RADIOECOLOGICAL MONITORING FOR 2020. <i>Severinenko Mariya Anatoliyevna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	10.15-10.30 offline
5.	NEW DETECTORS IN A COMPARTMENT USING SMARTPHONES AS A RETHINKING OF THE STUDY OF RADIOACTIVE OBJECTS. IN THE FIELD, IN THE LABORATORY, FOR TEACHING STUDENTS. <i>Bredikhin Ivan Sergeevich</i> LLC GAMMATECH, Russian Federation	10.30-10.45 offline
6.	IMPLEMENTATION OF MODERN HARDWARE AND SOFTWARE TOOLS FOR AUTOMATION OF NEUTRON-ACTIVATION ANALYSIS IN INP RK <i>Lennik Svetlana Gennadevna</i> Institute of Nuclear Physics, Almaty, Kazakhstan	10.45-11.00 offline
COFFEE-BREAK		11.00-11.15
7.	RESEARCH INTO DISTRIBUTION OF RADIONUCLIDES IN FOREST LITTER LONG AFTER THE NUCLEAR TESTS <i>Syssoyeva Yelena Sergeevna</i> The Institute of Radiation Safety and Ecology, Kazakhstan	11.15–11.30 offline
8.	INVESTIGATION OF THE LABELING OF THE IODINE-125 RADIONUCLIDE, WITH OUT A CARRIER WITH VARIOUS BIOLOGICAL MACROMOLECULES. <i>Khajiev Lazizbek Ozodovich</i> Institute of Nuclear Physics of Republic Uzbekistan AS, Uzbekistan	11.30-11.45 online

9.	DEVELOPMENT OF TECHNOLOGY FOR PRODUCING NON-RADIOACTIVE SCANDIUM OXIDE FROM URANIUM ISL SOLUTIONS <i>Khlebnikova Irina Anatolyevna</i> Ulba metallurgical plant JSC, Kazakhstan	11.45–12.00 offline
10.	DETERMINATION OF THE CONTENT OF RARE METALS IN WASTE ANION-EXCHANGE RESIN SIM202 BY NEUTRON ACTIVATION AND MASS SPECTROMETRIC ANALYSIS <i>Usmanov Temur Mamasolievuch</i> Institute of Nuclear Physics of Republic Uzbekistan AS, Uzbekistan	12.00-12.15 offline
11.	RADIOMETRIC ASSESSMENT OF THE RADIATION AND RADIOECOLOGICAL SITUATION IN THE AREA OF OPERATIONS OF URANIUM ENTERPRISES IN THE NAVOI REGION OF UZBEKISTAN <i>Kholov Dilshod</i> Navoi state pedagogical institute, Navoi, Republic of Uzbekistan	12.15–12.25 online
12.	POSSIBILITIES OF LABORATORY INSTRUMENTAL INSTRUMENTS FOR RADIONUCLIDE AND ELEMENTAL ANALYSIS IN THE NAVOI STATE MINING INSTITUTE <i>Kholov Dilshod</i> Navoi state pedagogical institute, Navoi, Republic of Uzbekistan	12.25–12.35 online
13.	RADIOISOTOPE AND CHEMICAL ANALYSIS OF NATURAL WATERSKYZYLKUM REGION OF UZBEKISTAN <i>Kholov Dilshod</i> Navoi state pedagogical institute, Navoi, Republic of Uzbekistan	12.35-12.45 online
Lunch		13.00-14.30
POSTERS PRESENTATION		14.30-16.30

III International Scientific Forum “Nuclear Science and Technologies”
dedicated to the 30th anniversary of Independence of the Republic of Kazakhstan
Section 5 - «Nuclear and Radiation Technologies in Medicine, Industry and Agriculture»

21 September (Tuesday)
Morning session (9.30 – 13.00)
 Small hall of the Training Center

Chair: Chakrova Ye.

№	EVENT	Time Presentation form / section
1.	MODERN TRENDS OF PET/CT APPLICATION IN PATIENTS WITH LYMPHOMA <i>Bayembayev Farkhat Askarovich</i> MCHPAA RK, Nur-Sultan, Kazakhstan	9.30-9.50 offline
2.	DESIGN, CONSTRUCTION AND START-UP OF RADIOPHARMACEUTICALS PRODUCTION UNDER GMP CONDITIONS ON THE BASIS OF A MEDICAL INSTITUTION OF THE RK <i>Tleulessova Indira Kairatovna.</i> MCHPAA RK, Nur-Sultan, Kazakhstan	9.50-10.10 offline
3.	THE ROLE OF SPECT WITH ^{99m}Tc-MIBI COMBINED WITH PERFUSION SCYNTIGRAPHY OF THE MYOCARDIAL IN EARLY DIAGNOSIS AND PREVENTION OF COMPLICATIONS OF ISCHEMIC DISEASES <i>Narzullayev Eldar Sabyrzhanovich</i> MCHPAA RK, Nur-Sultan, Kazakhstan	10.10-10.30 offline
4.	ROLE OF NUCLEAR NEURO-VISUALIZATION IN PREOPERATIVE EPILEPSY ASSESSMENT <i>Sadykov Shakhrukh Shukhratovich</i> MCHPAA RK, Nur-Sultan, Kazakhstan	10.30-10.50 offline
COFFEE-BREAK		10.50-11.10
5.	APPLICATION OF RADIOPHARMACEUTICALS BASED ON GENERATOR RADIONUCLIDE GA-68 FOR PET DIAGNOSTICS <i>Jakanova Marita Turganbayevna</i> «UMC», Nur-Sultan, Kazakhstan	11.10-11.30 Offline
6.	INVESTIGATION OF DOMESTIC RADIOPHARMACEUTICALS IN IN VIVO EXPERIMENTS <i>Lyu Marina Borisovna</i> SCAID, Almaty , Kazakhstan	11.30-11.50 Offline
7.	ANALYSIS OF CHROMOSOMAL ABERRATIONS INDUCED IN LYMPHOCYTES OF HUMAN PERIPHERAL BLOOD BY RADIATION WITH DIFFERENT LET <i>Nurkassova Aru Yerzhanovna</i> JINR, Obninsk, Russia	11.50-12.10 Online

8.	RADIATION-CHEMICAL MODIFICATION OF POLYMER COMPOSITIONS BASED ON CHITOSAN AND POLYVINYLPIRROLIDONE <i>Mamyzbekov Galymzhan Kulamkadyrovich</i> INP, Almaty, Kazakhstan	12.10-12.30 Offline
9.	TECHNOLOGIES FOR STUDYING FUNCTIONAL NEURAL NETWORKS OF THE HUMAN BRAIN BASED ON DATA OF NUCLEAR FUNCTIONAL MAGNETIC TOMOGRAPHY <i>Enyagina Irina Mikhailovna</i> NRC KI, Moscow, Russia	12.30-12.50 Online
LUNCH		13.00-14.30
Section 5 - «Nuclear and Radiation Technologies in Medicine, Industry and Agriculture» 21 September (Tuesday) Afternoon session (14.30 – 18.00) Small hall of the Training Center		
Chairman: Oreshin P.A.		
10.	RADIOPHARMACEUTICAL DRUGS IN EAEU: ACHIEVED RESULTS AND PROSPECTS FOR THE NEXT 5 YEARS <i>Kodina Galina Evgenievna</i> FSBI SSC Federal medical biophysical center named after A.I. Burnazyan FMBA of Russia, Moscow, Russia	14.30-15.15 Online
11.	PET IN ONCODIAGNOSTICS: NEW VISTA FOR FLUORINE-18 AND GALLIUM-68 <i>Krasikova Raisa Nikolaevna</i> IHB SPB, St. Petersburg, Russia	15.15-16.00 Online
COFFEE-BREAK		16.00-16.20
12.	COMPARISON OF O-2- [¹⁸F] FLUORETHYLTYROSINE AND L-[METHYL-¹¹C] METHIONINE IN PET DIAGNOSTICS OF CEREBRAL GLIOMAS <i>Skvortsova Tatiana Yur'evna</i> IHB SPB, St. Petersburg, Russia	16.20-17.00 Online
13.	IMPLEMENTATION OF THE GMP SYSTEM AT THE INSTITUTE OF NUCLEAR PHYSICS, ALMATY <i>Chakrova Yelena Tikhonovna</i> INP, Almaty, Kazakhstan	17.00-17.20 Offline
14.	PRODUCTION OF EXPERIMENTAL SERIES OF SODIUM [¹⁸F] FLUORIDE ON THE SYNTHRA RN PLUS SYNTHESIS MODULE <i>Kulakov Alexandr Vladimirovich</i> INP, Almaty, Kazakhstan	17.20-17.40 Offline
15.	RECONSTRUCTION OF THE MICROBIOLOGICAL LABORATORY IN ACCORDANCE WITH GMP REQUIREMENTS <i>Medvedeva Zoya Vladimirovna</i> INP, Almaty, Kazakhstan	17.40-18.00 Offline
POSTERS PRESENTATION		16.00-18.00
GALA DINNER		19.00-22.00

Section 5 - «Nuclear and Radiation Technologies in Medicine, Industry and Agriculture» 22 September (Wednesday) Morning session (9.30-13.00) Small hall of the Training Center		
Chair: Chakrova Ye.		
1.	COMPUTATIONAL AND EXPERIMENTAL DOSIMETRY FOR NEUTRON CAPTURE THERAPY STUDIES AT IRT-T RESEARCH REACTOR <i>Anikin Mikhail Nikolaevich</i> TPU, Tomsk, Russia	9.30-9.50 offline
2.	HIGH-SENSITIVE COLOR INDICATOR OF ABSORBED DOSE OF EPITHERMAL NEUTRONS RADIATION <i>Kim Andrey Alexeevich</i> <i>Abdullaeva G.A., Yuldashev D.O.</i> INP AS RUz, Tashkent, Uzbekistan	9.50-10.10 online
3.	CALCULATION OF RADIATION DOSE ENHANCEMENT BY GADOLINIUM COMPOUNDS FOR RADIATION THERAPY <i>Kulabdullaev Gayratulla Asatovich</i> INP AS RUz, Tashkent, Uzbekistan	10.10-10.30 online
4.	THE STUDY OF RADIATION DOSE IN BIOLOGICAL SAMPLES WITH BEAMS OF GAMMA RAYS MEDICAL LINEAR ACCELERATOR ELEKTA AXESSE <i>Dyachkov Vyacheslav Valerievich</i> Kaz NU, Almaty, Kazakhstan	10.30-10.50 offline
COFFEE-BREAK		10.50-11.10
5.	NEUTRON CAPTURE THERAPY ¹⁰B and ¹⁵⁷Gd CONTAINING AGENTS DELIVERY VIA MAGNETIC NANOCARRIERS <i>Zibert Alexandr Vitalyevich</i> Astana branch of INP, Nur-Sultan, Kazakhstan	11.10-11.30 Online
6.	USE OF SILICON AS A DETECTOR FOR NEUTRON CAPTURE THERAPY DOSIMETRY <i>Smolnikov Nikita Victorovich</i> TPU, Tomsk, Russia	11.30-11.50 Offline
7.	RESEARCH OF INTERNAL STRUCTURES OF ELECTRICAL DEVICES AT A NEUTRON TOMOGRAPHY INSTALLATION <i>Adizov Sardor Moxidil o'g'li</i> INP AS RUz, Tashkent, Uzbekistan	11.50-12.10 Online
8.	INCREASING THE WEAR RESISTANCE OF ROCK CUTTING TOOLS BY RADIATION EXPOSURE AND MAGNETIC PULSE TREATMENT <i>Ashrapov Ulugbek Tovfikovich</i> INP AS RUz, Tashkent, Uzbekistan	12.10-12.30 Offline
9.	ILU INDUSTRIAL ACCELERATORS FOR E-BEAM AND X-RAY <i>Bryazgin Aleksandr Albertovich</i> INP SB RAS, Novosibirsk, Russia	12.30-12.50 Online
LUNCH		13.00-14.30
POSTERS PRESENTATION		16.00-18.00