



# The V International Scientific Forum “Nuclear Science and Technologies”

## Tuesday 8 October 2024

### Section 2 – ‘Energy and Materials Science’ - Auditorium ‘Abay Hall’ (08:30 - 10:00)

time	[id] title	presenter
08:30	[4] ИССЛЕДОВАНИЯ НА КАЗАХСТАНСКОМ МАТЕРИАЛОВЕДЧЕСКОМ ТОКАМАКЕ КТМ В ПОДДЕРЖКУ РАБОТ ПО УПРАВЛЯЕМОМУ ТЕРМОЯДЕРНОМУ СИНТЕЗУ	Prof. ТАЖИБАЕВА, Ирина
08:45	[267] РАДИАЦИОННЫЕ ДЕФЕКТЫ, ИНДУЦИРОВАННЫЕ БЫСТРЫМИ ТЯЖЕЛЫМИ ИОНАМИ В АКТУАЛЬНЫХ СЦИНТИЛЛЯТОРАХ	Prof. PANKRATOV, Vladimir
09:00	[270] STRUCTURAL INVESTIGATIONS OF WATER-BASED FERROFLUIDS WITH ISOMETRIC AND ANISOMETRIC NANOPARTICLES	BALASOIU, Maria
09:15	[53] DETAILED NEUTRONIC CALCULATIONS FOR PULSED NUCLEAR RESEARCH REACTOR NEPTUNE	HASSAN, Ahmed
09:30	[336] STRUCTURAL PARAMETERS OF Si <sub>29</sub> H <sub>36</sub> AND Si <sub>87</sub> H <sub>70</sub> NANOCCLUSERS WITH OXYGEN, CARBON, AND TELLURIUM IMPURITIES, Uzbekistan	SULAYMANOV, Nodimjon
09:45	[23] MICROSTRUCTURE MODIFICATION OF THE PRUSSIAN WHITE CATHODE MATERIAL AND ITS EFFECT ON THE ELECTROCHEMICAL PERFORMANCE OF SODIUM-ION BATTERIES	DONETS, Marina

### Section 2 – ‘Energy and Materials Science’ - Auditorium ‘Abay Hall’ (10:15 - 12:00)

time	[id] title	presenter
10:15	[77] TECHNICAL PREPARATION FOR IN SITU TRITIUM RELEASE STUDIES OF EU REFERENCE CERAMIC BREEDER PEBBLES	LEYS, Julia
10:30	[288] FUTURBETON AS NEUTRON-SHIELDING MATERIAL	Prof. ZOZ, Henning RYSPEEV, Talant
10:45	[178] ОБЪЕМНЫЕ И ПОВЕРХНОСТНЫЕ ФАЗОВЫЕ СОСТОЯНИЯ В МАГНИТОСТРИКЦИОННЫХ СПЛАВАХ FE-GA И FE-GE	SUMNIKOV, Sergey
11:00	[214] RESEARCH AND DEVELOPMENT ON HTGR FUELS AND MATERIALS UTILISING WWR-K RESEARCH REACTOR	FUKAYA, Yuji
11:15	[246] LEAD TARGET FOR THE STUDY OF ACCELERATOR DRIVEN SUBCRITICAL REACTOR WITH ION BEAMS	PARAIPAN, Mihaela
11:45	[94] DISTINCTIVE LOW-AND HIGH-TEMPERATURE DEPENDENCES OF THE MAGNETIC PENETRATION DEPTH IN ORGANIC AND HIGH-T <sub>c</sub> CUPRATE SUPERCONDUCTORS: EVIDENCE FOR THE GAPPED AND GAPLESS BOSE-LIQUID SUPERCONDUCTIVITY	Prof. DJUMANOV, Safarali

### Section 2 – ‘Energy and Materials Science’ - Auditorium ‘Abay Hall’ (13:30 - 15:00)

time	[id] title	presenter
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13:30	[81] SPECIFIC CRITERIA FOR DETERMINING THE FERMIONIC AND BOSONIC NATURES OF COOPER PAIRS IN DOPED CUPRATE SUPERCONDUCTORS	SHERALIEV, Mashrab
13:45	[338] STUDY OF THE EFFECT OF HGA DEFORMATION IN THE IBR-2M REACTOR	VDOVIN, Yakov
14:00	[75] НЕЙТРОНОГРАФИЧЕСКОЕ ИССЛЕДОВАНИЕ ФАЗОВЫХ ПРЕВРАЩЕНИЙ В НЕСТЕХИОМЕТРИЧЕСКИХ КАРБИДАХ ТИТАНА TiC <sub>x</sub>	Dr PARPIYEV, Adxamjon
14:15	[312] ИССЛЕДОВАНИЕ ВЛИЯНИЕ МИКРОСТРУКТУРЫ ПОЛОЖИТЕЛЬНЫХ ЭЛЕКТРОДОВ ХИМИЧЕСКИХ ИСТОЧНИКОВ ТОКА НА ИХ ФУНКЦИОНАЛЬНЫЕ ХАРАКТЕРИСТИКИ	YERDAULETOV, MEIR
14:30	[292] ION TRACKS IN NANOCRYSTALLINE OXIDES INDUCED BY SWIFT HEAVY IONS	MUTALI, Alisher
14:45	[339] MICROHARDNESS OF MONOCRYSTALLINE SILICON DOPED WITH NEUTRON TRANSMUTATION (online)	SHERMAKHMAD, Makhkamov

**Section 2 – 'Energy and Materials Science' - Auditorium 'Abay Hall' (15:15 - 17:00)**

time	[id] title	presenter
15:15	[113] РАЗРАБОТКА СИСТЕМЫ ДИАГНОСТИКИ ПЛАЗМЫ НА ОСНОВЕ ТРОЙНОГО ЗОНДА	Ms KAIYRBEKOVA, Assel
15:30	[184] STUDY OF THE ABSORPTION AND SHIELDING EFFICIENCY OF TWO-LAYER POLYMER COMPOSITES FROM NON-IONIZING AND IONIZING RADIATION	Dr SHAKIRZYANOV, Rafael
15:45	[26] SURFACE-MODIFIED CARBON NANOTUBES FOR BIOMEDICAL APPLICATIONS	KHAYDAROV, Renat
16:00	[13] RE-DEPENDENT STRUCTURE AND PHASE TRANSFORMATIONS IN Fe-Ga FUNCTIONAL ALLOYS	YERZHANOV, Bekarys
16:15	[110] МОДИФИКАЦИЯ ПОВЕРХНОСТИ ВОЛЬФРАМА ПОСЛЕ ОБЛУЧЕНИЯ ИНЕРТНЫМИ ГАЗАМИ	ZHANBOLATOVA, Gainiya
16:30	[340] METHODOLOGY FOR CONDUCTING HIGH-TEMPERATURE TESTS WITH TIN-LITHIUM KPS UNDER DEUTERIUM PLASMA IRRADIATION	TULUBAEV, Evgeny
16:45	[254] SPECIFIC CRITERIA FOR DETERMINING THE FERMIONIC AND BOSONIC NATURES OF COOPER PAIRS IN DOPED CUPRATE SUPERCONDUCTORS	DJUMANOV, Safarali