

Dedicated to 110th Anniversary of Academician S.A. Azimov

"FUNDAMENTAL AND APPLIED PROBLEMS OF MODERN PHYSICS" 11th INTERNATIONAL CONFERENCE

October 16-18, 2025, Tashkent, Uzbekistan

PROGRAM



Organizer: S.A. Azimov Physical-Technical Institute of UzAS Co-organizer: Institute of Material Sciences of UzAS Co-organizer: Council of Physicists of Uzbekistan

SCHEDULE OF THE CONFERENCE

October 16, Thursday	8:00-8:50	Registration, Entrance Hall of Uzbekistan Academy of Sciences (Tashkent)
	9:00-9:10	Conference opening at Conference Hall of
		Uzbekistan Academy of Sciences (Tashkent)
	9:10-11:30	Plenary sessions - 1
	11:30-11:50	Coffee break
	11:50-13:25	Plenary sessions - 2
	13:25	Departure (in bus and cars) from Uzbekistan Academy of Sciences to Zebu-Zar Restaurant
	13:40-15:20	Gala Reception - LUNCH, Restaurant Zebu- Zar
	15:30-16:30	Parallel sessions at PhTI of UzAS
	16:30-16:45	Coffee break
	16:45-17:15	Parallel sessions at PhTI of UzAS
October 17, Friday	8:00	Departure (in bus and cars) from the Physical- technical Institute (Tashkent) to the Institute of Material Sciences (Parkent)
	9:10	Arrival of conference participants at the
		Institute of Material Sciences (Parkent)
	9:10-10:20	Official Opening ceremony of the Statue to Academician S.A. Azimov and excursion of the conference participants to the Big Solar Furnace of the Institute of Material Sciences (Parkent, Tashkent region)
	10:30-12:20	Plenary sessions - 3
	12:20-12:55	Coffee break
	13:00-13:50	Plenary sessions - 4
	14:00-15:30	Gala reception - LUNCH at the Institute of Material Sciences
	16:00	Departure from the Institute of Material Sciences (Parkent) to the Physical-technical Institute (Tashkent)
	17:10	Arrival of conference participants
		at the Physical-technical Institute (Tashkent)
October 18,	9:00-10:30	Parallel sessions at PhTI of UzAS
Saturday	10:30-10:50	Coffee break
	10:50-11:40	Parallel sessions at PhTI of UzAS
	12:00-13:00	Conference closing Group photo

Address of the organizing committee:

Chingiz Aytmatov str. 2B, 100084-Tashkent, Uzbekistan S.A. Azimov Physical-Technical Institute of Academy of Sciences of Uzbekistan Reference point: "Hydrometcenter" bus stop E-mail: fticonf@gmail.com, website: www.fti.uz

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PROGRAM OF THE 11th INTERNATIONAL CONFERENCE "FUNDAMENTAL AND APPLIED PROBLEMS OF MODERN PHYSICS", October 16-18, 2025

First Day, 16.10.2025 Venue: Conference Hall of Uzbekistan Academy of **Sciences (Tashkent)**

8:00-8:50 – Registration of conference participants PLENARY SESSION, 16.10.2025, 9:00-13:25

	PLENARY SESSION, 16.10.2025, 9:00-13:25	
	<u>Chairman – Kh.K. Olimov</u>	
9:00-9:10	Conference opening. Welcoming speech by the President of the	
	Academy of Sciences of Uzbekistan	
	academician Sh.A. Ayupov	
9:10-9:25	About Academician S.A. Azimov and S.A. Azimov Physical-	
	technical Institute of the Academy of Sciences of Uzbekistan,	
	Director of S.A. Azimov Physical-technical Institute of the Academy	
	of Sciences of the Republic of Uzbekistan	
	prof. Kh.K. Olimov	
9:25-9:45	Speech by Academician of RAS V.Ya. Panchenko, Vice-President of	
	Russian Academy of Sciences	
	Russian Academy of Sciences, Moscow, Russia	
9:45-10:05	Speech by Academician of RAS A.P. Shkurinov	
	Moscow State University, Moscow, Russia	
10:05-10:25	Streaming Instability in Chip Based Semiconductor Plasma:	
	Quantum Mechanical Analysis	
	Mushtaq Ahmad	
	Faculty of Science, International Islamic University, Islamabad,	
	Pakistan	
10:25-10:45	Rational Design of HeteroStructured Photocatalyst System to	
	Improve Hydrogen Production	
	Nuraje Nurxat	
	School of Engineering and Digital Science, Nazarbayev University,	
10 45 11 05	Astana, Kazakhstan	
10:45-11:05	Формирование энергетических спектров (р,хр) и (р,ха) в	
	реакциях на ²⁷ Al при энергиях протонов 7.0, 22.0 и 30.0 МэВ	
	Zholdybayev Timur Institute of Nuclear Physics Almatu, Kazakhatan	
11:05-11:30	Institute of Nuclear Physics, Almaty, Kazakhstan	
11:05-11:50	Investigation of the influence of external factors on molecular processes during electrodecomposition of polypropylene-based	
	nanocomposites with nanoclay addition	
	Ibayeva Raida	
	Institute of Physics, Ministry of Science and Education of Azerbaijan,	
	Baku, Azerbaijan	
11:30-11:50	Coffee Break	
11:50 11:50	Chairman – B.B. Baizakov	
11:50-12:10	Time characteristics of the NICA luminosity detector	
11.30-12.10	Sergej Avdeyev	
	Joint Institute for Nuclear Research, Dubna, Russia	
12:05-12:30	Pulsed laser-plasma multispectral source of electromagnetic	
	radiation and charged particles on the base of supersonic gas-cluster	
	jet	
	Balakin Alexei	

Lomonosov Moscow State University, Moscow, Russia 3

12:30-12:50	Инженерно-технологический прорыв Узбекистана в XXI век <u>Яфасов Абдурашид</u>
12:50-13:10	Senior Researcher, Kaliningrad, Russia Monte Carlo simulation of X-Ray imaging radiocontrast enhancement
	Душанов Эрмухаммад
13:10-13:25	Joint Institute for Nuclear Research, Dubna, Russia Электронные микроскопы компании Jeol JEM-F200 и 120i
13.10 13.23	Ильин Александр
13:40-15:20	Interactive Corporation, Tokyo, Japan Gala reception - LUNCH at the Zebu-Zar restaurant
13:40-13:20	Gaia reception - LUNCII at the Zebu-Zai restaurant
15:30-18:00	In parallel with the Plenary Session: Poster session in the
	Hall of the S.A. Azimov Physical-Technical Institute of the
	Academy of Sciences of the Republic of Uzbekistan
	PARALLEL SESSION – Section 1
	(Nuclear and elementary particle physics),
T 7	16.10.2025, 15:30-17:15
Venue: S.A. Azı	mov Physical-technical Institute of Uzbekistan Academy of Sciences (Tashkent)
	<u>Chairman – K. Olimov</u>
15:30-15:40	Наблюдение выстроенностей в азимутально-быстротной
	матрице в центральных соударениях ядер серы с тяжелыми
	ядрами ядерной фото-эмульсии <u>Луговой Владимир</u>
	S.A. Azimov Physical-Technical Institute of Uzbekistan Academy of Sciences,
	Tashkent, Uzbekistan
15:40-15:50	Модель Давидова-Чабана с потенциалом Давидсона
	Надирбеков Махмуджон
15:50-16:00	Institute of Nuclear Physics of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan Зависимость спектров переменной чётности жёсткого
13.30-10.00	асимметричного ротатора от угловой переменной полярной
	координаты
	Kudiratov Sunnatillo
	Institute of Nuclear Physics of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan
16:00-16:10	Three-Magnon Systems in the Heisenberg Model
	Ташпулатов Саъдулла
16:10-16:20	Institute of Nuclear Physics of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan ASYMPTOTIC NORMALIZATION COEFFICIENTS FOR
10.10-10.20	10Be+n→11Be FROM THE PERIPHERAL 10Be(d,p)11Be
	REACTION
	Икромхонов Эркинжон
	Institute of Nuclear Physics of Uzbekistan Academy of Sciences
16:20-16:30	Dosimetry Analysis of Cs-131 Loaded Biopolymer Granules in
	Radionuclide and X-Ray Based Hybrid Therapy of Breast Cancer
	Cells with Monte Carlo Simulations Ünlü Ahmet
	Antalya Bilim University, Medical Imaging Techniques, Antalya, Türkiye
16:30-16:45	Coffee Break
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	Chairman – V.V. Lugovoi
16:45-16:55	Low cost nanoamperemeter based on switched integrator circuit
	Темиржанов Алишер
	Institute of Nuclear Physics, Almaty, Kazakhstan
16:55-17:05	Исследование фазового перехода от адронной материи к кварк-
	глюонной плазме в p+Pb, Xe+Xe и Pb+Pb столкновениях на
	БАК
	<u>Кахорова Азиза</u>
	Кахорова Азиза Самаркандский государственный университет имени Ш. Рашидова,
	Физико-технический институт АН РУз
17:05-17:15	Photoneutron and neutron reactions in nuclear astrophysics
17.03-17.13	Polyonov Satimboy
	National University of Uzbekistan
	PARALLEL SESSION - Section 2
	(Physics of semiconductors and solids),
	<u>16.10.2025, 15:30-17:15</u>
enue: S.A. A	zimov Physical-technical Institute of Uzbekistan Academy of
	Sciences (Tashkent)
	Chairman – Abdulkhaev O.A.
15:30-15:40	Investigation of Transport and Magnetism in Ag9Col_vMnvTo6
13.30-13.40	Investigation of Transport and Magnetism in Ag8Ge1-xMnxTe6 Solid Solutions
	Gahramanova Aynur Institute of Physics, Ministry of Science and Education, Azerbaijan, Baku, Azerbaijan
15:40-15:50	Effect of gamma irradiation on dielectric properties of composites
15.40 15.50	based on polypropylene with a binary system CdS/ZnS
	Melikova Sevini
	Academy of the Ministry of Emergency Situations of the Republic of Azerbaijan
15:30-15:40	Doping-Driven Evolution of Polaron Mass in YBCO
	Otajonov Sardorbek
	Nukus state pedagogical institute named after Ajiniyaz, Nukus, Uzbekistan
15:40-15:50	Self-focusing effect induced by a low-power laser in liquid crystals
	with hybrid reorientation
	Egamov Mukhtor
	Khujand Scientific Center, National Academy of Sciences of Tajikistan, Khujand,
	Tajikistan
15:50-16:00	Influence of monolayer thickness on optical properties of
	CdTe/ZnTe
	Sharibaev Muratbay
	Karakalpak State University, Uzbekistan
16:00-16:10	Dynamics and spectrum of atomic impurity in a dipolar Bose-
	Einstein condensate
	Turmanov Bekzod
	Physical-Technical Institute named after S.A. Azimov of the Academy of Sciences of
16:10-16:20	Uzbekistan, Tashkent, Uzbekistan Dependence of the negative magnetoresistance of GaMnAs epitaxial
10.10-10.20	layers on Mn concentration
	Pavel Parchinskiy
	National University of Uzbekistan, Tashkent, Uzbekistan

Domain walls in two-component quantum gases

<u>Baizakov Bakhtiyor</u>

Physical-Technical Institute named after S.A. Azimov of the Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan

16:20-16:30

16:30-16:45 **Coffee Break Chairman** - Bobur Ergashev 16:45-16:55 Using Bethe Ansatz in the Lieb-Liniger Model for Cryptographic **Applications** Mukhavo Rasulova Institute of Nuclear Physics of Uzbekistan Academy of Sciences 16:55-17:05 Study of the formation process of hierarchical structures in tin dioxide films obtained by spray pyrolysis **Bondar Ekaterina** Institute of Physics and Technology, Almaty, Kazakhstan 17:05-17:15 Beyond Mean-Field Effects in the Dynamics of Bose-Einstein **Condensates in a Two-Dimensional Double-Core Trap Otajonov Sherzod** Physical-Technical Institute named after S.A. Azimov of the Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan **PARALLEL SESSION - Section 3** (Renewable energy sources, materials sciences and their applications), 16.10.2025 г., 15:30-17:15 Venue: S.A. Azimov Physical-technical Institute of Uzbekistan Academy of Sciences (Tashkent) Chairman – J.S. Ahatov 15:30-15:40 Degradation of solar cells by ionizing radiation based on silicon double barriers nanostructures Abasov Fakhraddin Pasha Institute of Radiation Problems, Ministry of Science and Education of Azerbaijan 15:40-15:50 Gamma irradiation induced structural modifications of HDPE/GaAs composite films Akhmedova Gunav Institute of Physics, Ministry of Science and Education, Baku, Azerbaijan 15:50-16:00 Validation of ERA5 reanalysis against lidar measurements for wind resource assessment in mountainous terrain of Taiikistan **Madvaliev Umarkhon** S.U. Umarov Physical-Technical Institute, NAS of Tajikistan, Dushanbe 16:00-16:10 The role of solar panels in hydrogen gas production **Nosirov Mirjalol** Institute of Materials Science, Uzbekistan Academy of Sciences, Tashkent 16:10-16:20 Numerical modeling and calculation of the heat transfer coefficient in a flat channel using COMSOL Multiphysics **Shukurov Azamat** Physical-Technical Institute named after S.A. Azimov of the Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan

16:20-16:30 Study of the tribological characteristics of steel 20 after nitrocarburizing

Alimbekuly Temirlan

Research Center 'Surface Engineering and Tribology', East Kazakhstan University, Ust-Kamenogorsk, Kazakhstan

16:30-16:45 **Coffee Break** Chairman - Rakhimov R. Kh., Kabulov R. 16:45-16:55 **Tribological Properties of Self-Fluxing Nickel-Containing Coatings Obtained by Gas-Flame Spraying** Tleubergenova Gulim Research Center 'Surface Engineering and Tribology', East Kazakhstan University, Ust-Kamenogorsk, Kazakhstan 16:55-17:05 Early-stage assessment of thermal performance and retrofit options for Residential Buildings Asanova Sayyora S.A. Azimov Physical-Technical Institute of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan 17:05-17:15 Automation of assessment of the energy contribution of heliostats and the use of laser scanning of units in a large solar furnace with a thermal capacity of 1 MW **Shermatov Javohir** Institute of Materials Science, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan Second day, 17.10.2025 Venue – Institute of Material Sciences of the Academy of Sciences of the Republic of Uzbekistan (Parkent, Tashkent region) 9:10-16:00 8:00 Departure of conference participants by buses and cars from the territory of the Physical-technical institute to the Institute of Material Sciences 9:10 Arrival of conference participants at the Institute of Material Sciences (Parkent, Tashkent region) 9:10 - 10:30Official Opening ceremony of the Statue to Academician S.A. Azimov and excursion of the conference participants to the Big Solar Furnace of the Institute of Material Sciences (Parkent, Tashkent region) OFFICIAL OPENING CEREMONY OF THE STATUE TO ACADEMICIAN S.A. AZIMOV AT THE INSTITUTE OF MATERIALS SCIENCES (Parkent, Tashkent region) 9:10 - 9:20Speech by the President of Uzbekistan Academy of Sciences Academician Shavkat A. Ayupov and official opening of the Statue to Academician S.A. Azimov 9:20 - 9:30Speech by the Head of the Laboratory of Institute of Materials Sciences of UzAS Prof. Sultan Kh. Suleymanov 9:30 - 9:40Speech by the Head of the Laboratory of S.A. Azimov Physical-technical **Institute of UzAS Prof. Kosim Olimov**

Ceremony of laying flowers to the Statue of Academician S.A. Azimov

Excursion of the conference participants to the Big Solar Furnace of the

Speech by the daughter of Academician S.A. Azimov,

Speech by Prof. Rashid Yafasov

Prof. Shakhnoza S. Azimova

Institute of Material Sciences

9:40 - 9:50

9:50 - 9:55

9:55 - 10:00

10:00 - 10:30

PLENARY SESSION, 17.10.2025

Chairman – O.R. Parpiev

10:30-10:40	Welcoming speech by the director of the Institute of Material Sciences of the
	Academy of Sciences of the Republic of Uzbekistan
	O.R. Parpiev
10:40-11:05	Big Solar Furnace and solar technologies: basic, fundamental and applied
	aspects
	Suleymanov Sultan
	Institute of Materials Science, Parkent, Uzbekistan
11:05-11:30	О проекте БСП - Паркент
	Яфасов Абдурашид
	Senior Researcher, Kaliningrad, Russia
11:30-11:55	Определение потенциала солнечной и ветровой энергетики с
	использованием многокритериальной и многоэтапной методики с
	учетом климатических особенностей Таджикистана
	Madvaliev Umarkhon
	S.U. Umarov Physical-Technical Institute, NAS of Tajikistan, Dushanbe
11:55-12:20	Radiation-hardened SiC/Si heterostructures with embedded 14C: a novel
	semiconductor platform for extreme-environment energy conversion
	Mikhail Dolgopolov
	Samara Polytechnic University, Samara, Russia
<u>12:20-12:55</u>	Coffee Break
13:00-13:25	Method for obtaining molecular hydrogen by decomposing hexane and a
	hexane-water mixture on the surface of nano-TiO2 under gamma
	radiation
	Agayev Teymur
	Institute of Radiation Problems of MSE of Azerbaijan
13:25-13:50	Влияние особенностей ядро-ядерных взаимодействий на развитие
	каскадных процессов
	Федосимова Анастасия
	Физико-технический институт, Satbayev University, Алматы, Казахстан
10:30-	In parallel with the Plenary Session: Poster session in the Hall
13:50	of the Institute of Material Sciences of the Academy of Sciences
13.30	
	of the Republic of Uzbekistan
14:00-15:30	Gala reception - LUNCH at the Institute of Material Sciences
14.00-13.30	Gaia reception - LUNCH at the institute of Material Sciences
<u>16:00</u>	Departure of conference participants by buses and cars from the territory of the
10.00	Institute of Material Sciences (Parkent) to the Physical-technical institute
	(Tashkent)
<u>17:10</u>	Arrival of conference participants at the Physical-technical institute (Tashkent)
17,110	11111 of conference purvisipants at the 1 hysical technical institute (1 asiment)
Third day.	18.10.2025 Venue: Physical-technical institute of the Academy of
	Sciences of the Republic of Uzbekistan (Tashkent)
	Sciences of the Republic of Ozbekistan (Tashkent)
	PARALLEL SESSION - Section 1

(Nuclear and elementary particle physics)

18.10.2025 г., 9:00-10:30

Chairman -Lugovoy V.

9:00-9:10 Расчет параметров химического замораживания в столкновениях Рь-Рь и Xe-Xe на БАК

Шодмонов Маратбек

Physical-Technical Institute of Uzbekistan Academy of Sciences

9:10-9:20	Анализ спектров поперечного импульса заряженных адронов в
	протон-протонных столкновениях при $\sqrt{s} = 7$ и 13 ТэВ с
	использованием распределения Цаллиса
	Мусаев Кобил
	Physical-Technical Institute of Uzbekistan Academy of Sciences
9:20-9:30	WIMS-based computational analysis of burnup-dependent macroscopic
	thermal-neutron absorption and fission cross-sections in IRT-4M fuel
	(19.75% U-235) and fission-product poisoning
	Файзиев Темурбек
	Institute of Nuclear Physics of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan
9:40-9:50	Evolution of transverse momentum spectra of primary charged particles
	produced in high-energy Pb+Pb collisions at the LHC with changing
	collision centrality
	Khusniddin K. Olimov
	Physical-Technical Institute of Uzbekistan Academy of Sciences
9:50-10:00	Monte Carlo method for testing the possibility of formation of excited
	nucleus C13* in the reaction C12+n \rightarrow C13* \rightarrow 3 α +n'
	Bunyodjon Sindarov
	Physical-Technical Institute of Uzbekistan Academy of Sciences
10:00-10:10	Comparative analysis of delta(0) isobar production in n ¹² C and p ¹² C
	collisions at 4.2 GeV/c momentum
	Gulmurot Khudoyberdiev
10.10.10.20	Physical-Technical Institute of Uzbekistan Academy of Sciences
10:10-10:20	Energy and centrality dependence of average charged pions properties in
	p12C collisions at 4.2 and 9.9 GeV/c
	Nuriddin Musurmonov
10 20 10 20	National University of Uzbekistan, Tashkent, Uzbekistan
10:20-10:30	Leading protons and average multiplicities of various types of particles
	produced in p–12C collisions at 9.9 GeV/c
	Kosim Olimov
10 20 10 50	Physical-Technical Institute of Uzbekistan Academy of Sciences
<u>10:30-10:50</u>	Coffee Break

PARALLEL SESSION - Section 2 (Physics of semiconductors)

<u>18.10.2025 г., 9:00-12:10</u>

<u>Chairman – Usmonov Shukrullo</u>

9:00-9:10	Research on the structure of the tungsten surface after helium plasma
	treatment
	Naimankumaruly Yerassyl
	Plasma Science LLP, Ust-Kamenogorsk, Republic of Kazakhstan
9:10-9:20	Photoemission and X-ray Electron Spectroscopies of Multicomponent
	Structures Based on Si
	Eshboboyev Sardor
	Karshi State University, Karshi, Uzbekistan
9:20-9:30	Modeling and optimization of Sb ₂ Se ₃ thin-film solar cells using SCAPS-1D
	Bobomuradov Sherzod
	Physical-Technical Institute of Uzbekistan Academy of Sciences
9:30-9:40	Плотность поверхностных состояний на границе раздела структуры-
	M(Al)-O(Al2O3)-Π(CdTe)
	Утениязов Абатбай
	Каракалпакский Государственный университет им. Бердаха, Нукус, Узбекистан

9:40-9:50	Влияние асимметрии потенциала на динамику волновых пакетов в
	графене
	Гафуров Акмаль
0.50.10.00	Институт материаловедения Академии наук Узбекистана, Ташкент, Узбекистан
9:50-10:00	Динамика волновых пакетов в графене с квадратными и
	треугольными потенциальными решётками
	Авазов Мирзабек
10:00-10:10	Институт материаловедения Академии наук Узбекистана, Ташкент
10:00-10:10	Калибровка радиоизотопного уровнемера
	Ашрапов Улугбек Институт ядерной физики Академии наук Узбекистана, Ташкент
10:10-10:20	Делокализация на поверхности наночастиц кремния
10.10-10.20	
	Мухтаров Адил Институт ядерной физики Академии наук Узбекистана, Ташкент
10:20-10:30	Morphological evolyution of nikel-diffused polycrystalline silicon
10.20 10.00	structures
	исмайлов Канатбай исмайлов Канатбай
	Каракалпакский Государственный университет им. Бердаха, Нукус
10:30-10:50	Coffee Break
	<u>Chairman – – B.B. Baizakov, K.M. Kuchkarov</u>
10.50 11.00	
10:50-11:00	Особенности токовых характеристик солнечного элемента на основе
	CIGS:Ag
	Кабулов Рустам
11.00 11.10	Physical-Technical Institute of Uzbekistan Academy of Sciences
11:00-11:10	Structural, Morphological and Compositional Characteristics of SbxSey
	Thin Films
	Pirimmatov Mukhammad
11:10-11:20	Physical-Technical Institute of Uzbekistan Academy of Sciences
11:10-11:20	Формирование тонкоплёночного слоя ZrSi2 методами очистки
	поверхности Si(111)
	Жавохир Абдурахимов
11:20-11:30	Каршинский государственный университет, Узбекистан
11.20-11.30	Влияние кислородных термодоноров в подложках Si(111) на микроструктуру и функциональные свойства тонких пленок TiO2
	Абдусаттор Нормаматов Каршинский государственный университет, Узбекистан
11:30-11:40	Получение многослойного графена на каталитической подложке меди
11.50 11.40	методом газофазного осаждения
	турсункулов Ойбек
	<u>Турсункулов Ойоек</u> Центр передовых технологий, МВССИ РУз, Ташкент
	цептр передовых технологии, миссен т з з, ташкент
PA	ARALLEL SESSION - Section 3 (Renewable energy sources)
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18.10.2025, 9:00-12:10

<u>Chairman – Shavkat Nurmatov, Jobir Ahadov</u>

9:00-9:10	The role of polymer materials in solar thermal collectors
	Tuychiyev İxtiyor
	Physical-Technical Institute, Uzbekistan Academy of Sciences, Tashkent
9:10-9:20	Finding the optimal tilt by using PVSYST and variation of angle by region
	Ismoilov Ibrohim
	Tashkent State Technical University named after Islam Karimov, Tashkent, Uzbekistan

9:20-9:30	Structural-Phase State and Tribological Properties of Steel 20 after Plasma
	Electrolytic Carburizing
	Alibekova Balym
	School of Engineering and Digital Science, Nazarbayev University, Astana, Kazakhstan
9:30-9:40	Rational Design of HeteroStructured Photocatalyst System to Improve
	Hydrogen Production
	Nuraje Nurxat
	School of Engineering and Digital Science, Nazarbayev University, Astana, Kazakhstan
9:40-9:50	Energy-efficient water desalination based on TFN membranes combined
	with renewable energy sources
	Kuralov Murodbek
	Physical-Technical Institute of Uzbekistan Academy of Sciences, Tashkent, Uzbekistan
9:50-10:10	Method for obtaining molecular hydrogen by decomposing hexane and a
	hexane-water mixture on the surface of nano-TiO2 under gamma radiation
	Agayev Teymur
	Institute of Radiation Problems of MSE of Azerbaijan
10:10-10:30	Fabrication and application of super hydrophobic membranes
	Токтарбай Жексенбек
40 20 40 50	Abai Kazakh National Pedagogical University, Almaty, Kazakhstan
<u>10:30-10:50</u>	Coffee Break

12:00-13:00 Summing up and closing the conference in the conference hall of S.A.

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