Conference schedule

15 September, Monday

08:00-09:00	Registration
09:00-09:30	Opening ceremony
09:30-11:00	Plenary reports – I
11:00-11:20	Coffee break
11:20-13:00	Session reports – I
13:00–14:30	Lunch
14:30–16:10	Session reports – II
16:10–16:30	Coffee break
16:30–18:10	Session reports – III
19:00-22:00	Conference dinner

16 September, Tuesday

09:30-11:00	Plenary reports – II
11:00-11:20	Coffee break
11:20-11:50	Plenary reports – II
11:50-13:10	Session reports – IV
13:10–14:30	Lunch
14:30–16:10	Session reports - V
16:10–16:30	Coffee break
16:30-17:30	Poster reports
17:30-18:00	Closing ceremony
17:30–18:00	Closing ceremony

17 September, Wednesday - Excursion day

09:00-13:00	Technical tour to the INP facilities
14:00-16:00	Cultural tour to the Central State Museum RK

Conference program

15 September, Monday

08:00-09:00	Registration
09:00-09:30	Opening
	Plenary reports – I.
09:30-10:00	Application of nuclear physics technologies of INP for
	research in the field of cultural heritage
	Nazarov Kuanysh
	(Institute of Nuclear Physics, Atomic Energy Agency, Almaty,
	Kazakhstan)
10:00-10:30	The experience of using neutron methods of the JINR LNP in
	the study of cultural heritage sites
	Belushkin Alexander
	(Joint Institute for Nuclear Research, Dubna, Russia) How natural science research affects the selection of
	conservation methods: on the example of the tomb door of Khoja Ahmed Yasavi
10:30-11:00	Altynbekov Krym
	(Scientific Restoration Laboratory "Ostrov Krym", Almaty,
	Kazakhstan)
11:00-11:20	Coffee break
11.00 11.20	Sectional reports-I.
	Scientific Insights into Iron Age Steppe
	Goldsmithing technologies
11:20-11:40	Amir Saltanat
	(British Museum, London, UK)
	Possibilities of neutron methods at the IBR-2 pulsed high-flow
	reactor for analyzing the structural features of archaeological
11:20-11:40	materials
	Kichanov Sergei
	(Joint Institute for Nuclear Research, Dubna, Russia)
12:00-12:20	From archeology to genetics: an interdisciplinary approach to
	the study of the Saka population of Issyk-Kul
	Abdykanova Aida
	(American University of Central Asia, Bishkek, Kyrgyzstan)
12:20-12:40	Experience of analytical research of materials of the
	Dzhetyasar archaeological culture
12.20 12.10	Mednikova Mariia
	(Institute of Archeology of the Russian Academy of Sciences)
10 10 10 00	Methods of studying ceramics in archeology
12:40-13:00	Kaliyeva Zhanargul
	(Margulan Institute of Archeology)
13:10-14:30	Lunch
	Sectional reports-II.
14:30-14:50	The role of micro-impurities in determining the original color
	of reborn copper pigments in the 14th-century Cathedral of the
	Nativity of the Virgin of the Snetogorsky Monastery (Pskov,

	Russia)
	Dmitriev Andrey/ Filippova Olga
	(Joint Institute for Nuclear Research, Dubna, Russia)
	New paints to the old canvas: research methods of natural
	sciences of archaeological materials from the ancient ground
14:50-15:10	burial ground Volna 1, Tamansky Peninsula (Russian Science
14.30-13.10	Foundation No. 23-18-00196)
	Saprykina Irina
	(Institute of Archeology of the Russian Academy of Sciences)
	Natural science methods in zooarchaeology
15:10-15:30	Shagirbayev Mambet
	(Margulan Institute of Archeology)
	Study of carbonate layers on artifacts of the Republic of
	Kazakhstan for dating by electron paramagnetic resonance
15:30-15:50	method
	Seredavina Tatyana
	(Institute of Physics and Technology, Satpayev University)
	Study of the elemental composition of modern coins by INAA
	and RFA methods for modeling archeometallurgical studies
15:50-16:10	Silachev Igor
	(Institute of Nuclear Physics, Atomic Energy Agency, Almaty,
	Kazakhstan)
16:10-16:30	Coffee break
	Sectional reports-III.
	Neutron tomography study of finds from the Uzundara fortres
	using neutron tomography
16:30-16:50	Ismatov Normamat
	(Institute of Nuclear Physics of the Academy of Sciences of the
	Republic of Uzbekistan)
	Anthropology at the Intersection of Sciences: biological and
16 50 17 10	cultural dimensions
16:50-17:10	Zhanuzak Ramazan
	(Margulan Institute of Archaeology)
17:10-17:30	Chemical composition and origin of vessel glass from ancient
	monuments of the Northern Black Sea region of the end of the
	VI century BC-I century AD (based on the materials of the
	collection of the State Historical Museum)
	Rumiantseva Olga
	(Institute of Archeology of the Russian Academy of Sciences)
	Ancient glassmaking of Uzbekistan in interdisciplinary studie
17 20 17 50	Murodova Durdonakhon
17:30-17:50	(National Center of Archeology of the Academy of Sciences of
	the Republic of Uzbekistan)
	Mountain agriculture and irrigation: results and prospects for
15 50 40 10	settlements study in Altai mountains
17:50-18:10	Konstantinov Nikita
	(Al-Farabi Kazakh National University)
	Welcome dinner

16 Septemb	per, Tuesday		
	Plenary reports-II.		
	Nuclear physics studies of archaeological sites at the Institute of Nuclear Physics of the Academy of Sciences of the		
	Republic of Uzbekistan		
09:30-10:00	Tashmetov Mannab		
	(Institute of Nuclear Physics of the Academy of Sciences of the		
	Republic of Uzbekistan)		
	Scientific achievements of the A. H. Margulan Institute of		
10.00 10.00	Archaeology: results and prospects		
10:00 - 10:30	Kasenova Asemgul Daurenovna		
	(Margulan Institute of Archaeology)		
-	Current status and prospects of muonographic studies of		
	archaeological sites and cultural heritage sites		
10:30 - 11:00	Polukhina Natalia		
	(National University of Science and Technology MISIS,		
	Russia)		
11:00-11:20	Coffee break		
	Application of isotope geochronology to determine the regions		
11:20-11:50	of origin of rock material		
11:20-11:30	Khotylev Alexey		
	(Lomonosov Moscow State University)		
	Sectional reports-IV.		
	Elemental and X-ray structural analysis of ceramics of the		
	Bronze Age settlement Dongal in Central Kazakhstan		
11:50-12:10	Silachev Igor		
	(Institute of Nuclear Physics, Atomic Energy Agency, Almaty,		
	Kazakhstan)		
	X-ray fluorescence method for the study of metal objects of		
12:10-12:30	horse equipment of the Saka period		
12.10 12.30	Bessetayev Bauyrzhan		
	(Al-Farabi Kazakh National University)		
12:30-12:50	Ceramic finds of the Shubarat-1 monument (2023-2024) and		
	the experience of using neutron-tomography to study them		
	Dubyagina Ekaterina		
	(Margulan Institute of Archeology, Almaty)		
12:50-13:10	Results of conservation and restoration work on artefacts from		
	the Tortoba burial ground		
	Vishnyakova-Bizyayeva Yelizaveta		
	(Margulan Institute of Archeology)		
13:10-14:30	Lunch		
	Sectional reports-V.		
	Study of archaeological artifacts from the archaeological		
14.00.14.50	collection of the Central State Museum of the Republic of		
14:30-14:50	Kazakhstan		
	Myakisheva Olga		
	(Central State Museum of the Republic of Kazakhstan)		
	Raman spectroscopy and chemometric methods in the study of		
14:50-15:10	the aging processes of ancient icon boards		
	Mikhailova Anna		

	(Semenov Institute of Chemical Physics, Russian Academy of Sciences)
15:10-15:30	X-ray microtomography for anthropology and Archeology: experience in developing hardware and software solutions
	Avakyan Artem
	(PRODIS.NDT, Russia)
	Reconstruction of conditions in the port water area of
	Fanagoria (Taman peninsula) in the interval of V century BC -
15:30-15:50	IV century AD
	Mayorov Alexander
	(Lomonosov Moscow State University)
	X-ray fluorescence spectrometry of valuable artifacts of the
15:50-16:10	Museum of History of Uzbekistan
	Yarmatov Bakhrom
	(Institute of Nuclear Physics, Academy of Sciences of the
	Republic of Uzbekistan)
16:10-16:30	Coffee break
16:30-17:30	Poster reports
	Closing ceremony

Technical tour to INP facilities

Kazakhstan

Cultural tour to the Central State Museum of the Republic of

09:00-13:00

14:00-16:00

Poster reports

- **Baumann M.** MCT internal traceology: fresh or dry? A case study of mousterian bone retouchers
- **Khaligzada A.Sh.** Determination of the electrical parameters of the gas thin film
- **Saydullaev B.** The INAA and ICP-MS and track analysis of the bone finds and some problems with radiogenic dating
- **Abdurakhimov B.** Neutron imaging facility at the WWR-SM reactor: non-destructive studies of cultural heritage objects of Uzbekistan
- **Myrzabekova E.** Imax compact x-ray microtomography kit for observing materials
- **Smirnova V.** Investigation of mass ceramics from the excavations of the Volna-1 urban burial ground
- **Smat A.** An analysis of the pore distribution in ceramic vessels from the Akterek burial archeological site using neutron tomography data
- **Kenessarin M.** Application of neutron radiography and tomography for non-destructive analysis of archaeological objects at the titan facility
- **Shegebayev N.** Neutron imaging investigation of metal archaeological artifacts from the Eleke Sazy site
- **Zhomartova A.Zh.** Neutron tomography, diffraction, and spectroscopic methods: investigating the structural features of ceramic and metal cultural heritage artefacts (Kazakhstan, Romania)
- **Yerlankyzy Zh.** Production of biogas from food waste and study of the efficiency of its combustion
- **Yergashov A.** Application of Radiation Capture Neutron Resonance Analysis (NRCA) in archaeology
- **Saparova A.** Non-invasive structural analysis of ceramic fragments from ancient Kazakh tribes
- **Bakirov B.A.** The method of neutron tomography in the study of archaeological finds Volna 1
- **Rafikov A.** Investigation of silicon compensation and overcompensation features when alloying with rhodium