



Academy of Sciences of the Republic of Uzbekistan  
Institute of Nuclear Physics of Academy of Sciences of the Republic of Uzbekistan  
Joint Institute of Nuclear Research  
Frank Laboratory of Neutron Physics

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## THE FIRST CIRCULAR

## THE THIRD INTERNATIONAL WORKSHOP

### «THE USE OF NUCLEAR PHYSICS METHODS FOR CULTURAL HERITAGE RESEARCH»

Tashkent, Uzbekistan

12 – 14 September 2023

*Dedicated to the 80th anniversary of Uzbekistan Academy of Sciences*

**ORGANIZERS:** Academy of Sciences of the Republic of Uzbekistan  
Institute of Nuclear Physics of Uzbekistan Academy of Sciences  
Joint Institute of Nuclear Research  
Frank Laboratory of Neutron Physics

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### WORKSHOP MATERIALS

The abstracts should be written in English and Russian in accordance with the following rules: up to 2 pages in A4 format paper including tables and figures, all margins should be 25 mm, text processor MS Word, Times New Roman font, 1.0 spaced. TITLE - all capitals, 14 pt., bold, single spaced - Authors - 12 pt., bold, single spaced - Organization name -12 pt., italics, text 12 pt.



## DATE AND PLACE OF THE WORKSHOP

The workshop will be held on the basis of Institute of Nuclear Physics of Uzbekistan Academy of Sciences (Tashkent, Ulugbek) on September 12 – 14, 2023.

Arrival: September 10 – 11, 2023.

Departure: September 15 – 17, 2023.

Registration: at 08:00 – 09:30, September 12, 2023, Institute of Nuclear Physics, entrance hall of main building.

Opening of the workshop: 09:30, September 12, 2023.

## DEADLINES

August 1, 2023 – Deadlines of Abstracts submission and Attendance request (registration form)

August 10, 2023 – The second announcement.

## WORKSHOP TOPICS

1. Priority in the field of research of cultural heritage objects using nuclear-physical methods;
2. Possibilities and opportunities for the development of nuclear physics methods for the study of cultural heritage objects;
3. Coordination and integration of activities of research groups in the field of humanities and natural sciences.

It is expected to discuss the results achieved and the further prospects for using the following methods:

- *Radiography and tomography on neutron and synchrotron beams;*
- *Neutron and X-ray diffraction;*
- *Neutron activation analysis;*
- *X-ray fluorescence analysis;*
- *Mössbauer effect;*
- *Other methods (resonances in nuclear reactions, PIGE, PIXE, RBS, NMR, neutron depth profiling, etc.).*

**Working languages:** English and Russian

**Workshop format:** Off-line

## CONTACT INFORMATION

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## REGISTRATION AND MATERIALS PRESENTATION

It is necessary to register by filling out an application and attaching the abstracts before August 1, 2023 on the website: [https://indico.jinr.ru/e/cultural\\_heritage\\_research](https://indico.jinr.ru/e/cultural_heritage_research)

Plenary talk lasting 30-40 minutes and oral presentations lasting 20 minutes are expected.

**WELCOME TO TASHKENT!**