

Session Program

11-17 Oct 2020

**LXX International conference "NUCLEUS -
2020. Nuclear physics and elementary
particle physics. Nuclear physics
technologies"**

***Section 9. Nuclear-physical methods in the
study of cultural heritage objects***

Online

Monday 12 October

15:30

Section 9. Nuclear-physical methods in the study of cultural heritage objects

Session | Location: Online

15:30–15:55

MINERALOGICAL AND CHEMICAL COMPOSITION OF PREHISTORIC CAVE PAINTINGS AND PICTOGRAPHS (SOUTHERN URALS, RUSSIA) BY ENERGY DISPERSIVE X-RAY MICROANALYSIS

Speaker

D. Kisileva

15:55–16:20

X-RAY, SYNCHROTRON AND NEUTRON IMAGING OF METAL ARTIFACTS FROM THE BLACK GRAVE MOUND

Speakers

E.S. Kovalenko, E.Yu. Tereschenko

16:20–16:45

$^{87}\text{Sr}/^{86}\text{Sr}$ ISOTOPE RATIO DETERMINATION IN BIOAPATITE BY MC-ICP-MS USING THE SSB TECHNIQUE FOR ARCHAOMETRIC PROVENANCE STUDIES

Speaker

T. Okuneva

16:45–17:00

Coffee break

17:00–17:25

LEAD ISOTOPE ANALYSIS OF THE BRONZE AGE METAL FROM THE STEPPE CIS- AND TRANS-URALS

Speaker

N. Soloshenko

17:25–17:50

PROVENANCE OF METAL ARTEFACTS OF THE LATE BRONZE AGE FROM THE SOSNOVAYA MAZA HOARD BY MC-ICP-MS LEAD ISOTOPE ANALYSIS

Speaker

N.I. Shishlina

18:40

Saturday 17 October

14:10

Section 9. Nuclear-physical methods in the study of cultural heritage objects

Session | Location: Online

14:10-14:35 **Cutting metal into perfect 100-300 nm strips in the 16-17th centuries**

Speaker

Mr Juri Spiridonov

14:35-15:00

THE ELEMENTAL COMPOSITION AND CHRONOLOGY OF THE SICKLES FROM THE SOSNOVAYA MAZA HOARD OF THE LATE BRONZE AGE

Speaker

N.I. Shishlina

15:00-15:25

TOWARDS A MULTI-PROXY BIOAVAILABLE STRONTIUM ISOTOPE BASELINE FOR THE ORENBURG REGION, RUSSIA

Speaker

D. Kisileva

15:25-15:50

PROVENANCE OF THE LEAD DETECTED IN THE ANTIQUE CERAMIC SCULPTURE FROM THE KERCH BAY

Speaker

E.A. Greshnikov

15:50-16:15

RED WAX SEALS: RECONSTRUCTION OF HISTORICAL TECHNOLOGY

Speaker

E.I. Nosova

16:15-16:40

INVESTIGATION OF THE CULTURAL HERITAGE ITEMS BY NEUTRON RESONANCE CAPTURE ANALYSIS

Speaker

Mr Almat Yergashov

17:05