

31st International Seminar on Interaction of Neutrons with Nuclei: Fundamental Interactions & Neutrons, Nuclear Structure, Ultracold Neutrons, Related Topics (ISINN-31)

Thursday, 29 May 2025

Parallel Session 4: Nuclear and related analytical techniques in environmental and materials science: (1)

- Room V7 (09:00 - 10:20)

-Conveners: Manh Dung Ho

time	[id] title	presenter
09:00	[111] Air Pollution Studies in Asia and the Pacific Based on Moss Analysis by Nuclear and Related Analytical Techniques	FRONTASYEVA, Marina
09:20	[2] Risks Assessment of Gold Nanoparticles Exposure for the Soil-Plant-Consumer System	PESHKOVA, Alexandra
09:35	[4] Assessment of the Recreational Zones in Moscow Using Neutron Activation Analysis and Atomic Absorption Spectrometry	SHVETSOVA, Margarita
09:50	[876] Experimental Demonstration of Fast Neutron Absorption Spectroscopy Driven by Repetitive Laser Neutron Source	XU, Hao
10:05	[131] Neutron Spectra and Fast Neutron Fluence Rate Measurement for the Atomospheric Neutron Irradiation Spectrometer at CSNS	ZHOU, Bin

Parallel Session 4: Nuclear and related analytical techniques in environmental and materials science: (2)

- Room V7 (10:50 - 13:05)

-Conveners: Marina Frontasyeva

time	[id] title	presenter
10:50	[114] Development and Application of k0-standardized Neutron Activation Analysis Utilizing Short-Lived Radionuclides at the Dalat Research Reactor	HO, Manh Dung
11:10	[134] Development Status of the Neutron Detectors for Instruments at China Spallation Neutron Source	ZHOU, Jianrong
11:30	[48] In Situ Neutron-Diffraction Studies of Structural Phase Transitions in Fe-xGa Alloys	VERSHININA, Tatiana
11:50	[6] Copper and Nickel Accumulation and Translocation in Leafy Vegetables Irrigated with Metal-Containing Effluents	KRAVTSOVA, Aleksandra
12:05	[13] Activation by Neutrons and Related Analytical Methods as a Tool of Medical Elementology	ZAICHICK, Vladimir
12:20	[29] A Synergy of ICP—MS/AES and Machine Learning for Elemental Characterization of Soil	BADAWY, Wael
12:35	[9] Analysis of ²³⁴ U/ ²³⁸ U Ratio by ICP-MS	IZOSIMOV, Igor
12:50	[58] A Comprehensive Study of Ruined Mural Fragments from the 12th Century Church of Transfiguration of Our Savior on the Nereditsa Hill (Veliky Novgorog, Russia)	ZHUKOVA, Ekaterina

- Room V7 (14:00 - 15:35)

-Conveners: Xinxiang Li

time	[id] title	presenter
14:00	[47] INAA and XRD Investigation of the Serbian Sector of the Danube River and Its Tributary	DULIU, Octavian G.
14:20	[62] Study of the Wall Painting from the Vladychaya Palata of the Novgorod Kremlin (Velikiy Novgorod, Russia) Using Complementary Physico-Chemical Methods	LOBACHEV, Valerii
14:35	[68] Radiosensitivity of Rice to Fast Neutrons	ALEKSIAYENAK, Yulia
14:50	[76] Crystallographic Texture Changes during Martensitic Transformations: X-Ray and Neutron Diffraction Studies and Modeling	VASIN, Roman
15:05	[116] Effect of Neutron Irradiation on the Electronic and Optical Properties of AlGaAs/InGaAs-Based Quantum Well Structures	YSKAKOV, Almas
15:20	[127] Physical Design of a High-Brightness Neutron Source Target Station Using 100 MeV Protons on a Tantalum Target	SHEN, Fei

Parallel Session 4: Nuclear and related analytical techniques in environmental and materials science: (4)

- Room V7 (16:05 - 18:10)

-Conveners: Octavian G. Dului

time	[id] title	presenter
16:05	[25] Experimental Extraction of Neutron Resonance Parameters at 20-300 eV for $^{147,149}\text{Sm}$	LI, Xinxiang
16:25	[88] Research on Time-Resolved Prompt Gamma Neutron Activation Analysis Based on Back-n Facility	YANG, Gao1e
16:40	[15] Calculation Model and Static Parameters of the IBR-2M Reactor	VDOVIN, Yakov
16:55	[45] Mechanical and Temperature Calculations of the Reactivity Modulator Construction of the Research Pulsed Reactor NEPTUN	KUSHNIR, Ivan
17:10	[117] Analysis of Physical Parameters of the New High-Flux Pulse Reactor	CHERESHKO, Dimitar
17:25	[109] Neutron Nucleus Parity Violation Experiment on the Back-n Beamline of CSNS	ZHANG, Mofan
17:40	[135] Development of Polarized ^3He at CSNS	ZHANG, Junpei