

Session Program

18-22 Sept 2023



**Radiation from Relativistic Electrons in
Periodic Structures "RREPS-23" & Electron,
Positron, Neutron and X-ray Scattering under
External Influences "Meghri-23"**

Poster session II

Tuesday 19 September

17:00

Poster session II

Session

17:00–17:01

Project of the source of relativistic electrons with angular momentum

Speaker

Mikhail Nozdrin

17:02–17:03

Simulation and experimental results of electron beam interaction with 3D-printed samples made of modified plastics

Speaker

Irina Miloichikova

17:03–17:04

IMITATION MODEL OF SOURCE INFORMATION FORMATION IN HIGH ENERGY DIGITAL RADIOGRAPHY AND COMPUTER TOMOGRAPHY SYSTEMS

Speaker

Vladimir Smolyanskiy

17:04–17:05

Study of phase objects by dynamical diffraction of a spherical X-ray wave in a crystal using a temperature gradient

Speaker

Dr Levon Levonyan

17:05–17:06

NEW MICROFOCUS SOURCE BASED ON A BETATRON FOR HARD X-RAY IMAGING

Speaker

Vladimir Smolyanskiy

17:06–17:07

Electron charge dynamics of the semiconductor photocathode during the laser-induced photoemission

Speaker

Mr Mikhail Vladimirov

17:07–17:08

Investigation of the radiation resistance and optical properties of new composite thermal barrier coatings

Speaker

Anush Badalyan

17:08–17:09

The Molecular Mechanism of Smectisation and Regulation of Polymorphism in Nematic Liquid Crystal Systems

Speaker

Dr Liana Bezhanova

17:09-17:10 Dynamics of interacting solitons**Speaker**

Mileta Arakelyan

17:10-17:11 Formation of Medical Radioisotopes ^{111}In in Photonuclear Reactions**Speaker**

Tiruhi Bakhshiyani

17:11-17:12**The electron beam propagation through 3D-printed plastic samples with different infill patterns****Speaker**

Angelina Bulavskaya

17:12-17:13**Evaluation of the possibility of a multichannel detector application for electron beam profile measurement by the multi-angle scanning method****Speaker**

Dr Sergei Stuchebrov

17:13-17:14**Characteristics of a neutron source based on an electron accelerator LINAC-200****Speaker**

Vitold Bleko

17:14-17:15**Observation of embrittlement of a stretched metallic wire by measuring the frequency of its natural oscillations****Speaker**

Suren G. Arutunian

17:15-17:16**On the Possibility of Using Corundum to Create Sensitive VUV Detectors****Speaker**

Ms Julietta Vardanyan

17:16-17:17**Proton Induced Reactions on ^{114}Sn and ^{120}Sn Targets****Speaker**

Gohar Hovhannisyan

17:17-17:18**SINGLE-CHANNEL HIGH-PRECISION LASER RANGEFINDER****Speaker**

Yeghisabet Hayrapetyan

17:18-17:19**TUNING OF THE RESONANT FREQUENCY OF LIGHT MODEMS ON VOLUMETRIC RESONATORS****Speaker**

Yeghisabet Hayrapetyan

17:19-17:20**Compact REPM structures for synchrotron radiation source**

Speaker

Ms Irina Kilmetova

17:20–17:21

Microtron Experimental Facility at Tomsk Polytechnic University**Speaker**

Dr Artem Vukolov

17:21–17:22

Prospects of corundum crystals application as Cherenkov radiators**Speaker**

Dr Yury Cherepennikov

17:22–17:23

DIFFRACTION OF LIGHT BY A SLIT IN ANISOTROPIC MEDIA WITH CLOSED AND OPEN WAVE VECTOR SURFACE .**Speaker**

Prof. Asatur Lalayan

17:23–17:24

Li₂·3I₂O₃·H₂O: Crystal Structure and IR Spectrum**Speaker**

Dr Ruzan Sukiasyan

17:24–17:25

Investigation of sputtering processes using acoustoplasmic magnetrons**Speaker**

Ruben Chilingaryan

17:25–17:26

Design and modelling of a prototype U27 undulator for the SYLA project**Speaker**

Yakov Abakumov

17:26–17:27

Different methods for studying the magnetic properties of undulator systems for the synchrotron “SILA”**Speaker**

Aleksii Komlev

17:27–17:28

Effect of Crystal Reflectivity on the Angular Distribution of Diffracted Transition Radiation from Relativistic Electrons**Speaker**

Igor Vnukov

17:28–17:29

Feasibility of using optical Cherenkov radiation for non-relativistic ion beam diagnostics**Speaker**

Blazo Djurnic

17:29–17:30

Computer Modeling of a Pyroelectric Accelerator**Speaker**

Pavel Shapovalov