

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"**

***e-/e+, X-ray, THz, and neutron based
applications***

Wednesday 20 September

09:00

e-/e+, X-ray, THz, and neutron based applications

Session | **Convener:** Alexander Potylitsyn

09:00–09:20

Twisted radiation from nonlinear Thomson scattering with arbitrary incident angle

Speaker

Ke Liu

09:20–09:40

Coherent Radiation at Electron Channeling in OL as a Mechanism to Increase the Laser Intensity

Speaker

Sultan Dabagov

09:40–10:00

Electric field lines of the helical undulator

Speaker

Suren G. Arutunian

10:30

Thursday 21 September

15:00

e-/e+, X-ray, THz, and neutron based applications

Session | **Convener:** Prof. Alexander Lobko

15:00–15:20

Orbital angular momentum radiation of relativistic electrons in the laser wave field with linear polarization.**Speaker**

Dr Oleg Bogdanov

15:20–15:40

Interaction of an electron with unipolar pulses of arbitrary shape**Speaker**

Dmitrii Gavrilenko

15:40–16:00

Electrical, Dielectric and Nonlinear Optical Properties of SrB4O7**Speaker**

Dr V.G. Harutyunyan

16:00–16:20

Proton Irradiation Tolerance of Lead Halide Perovskites**Speaker**

Anush Badalyan

16:20

Friday 22 September

09:00

e-/e+, X-ray, THz, and neutron based applications

Session | **Convener:** Prof. Vladislav Syshchenko

09:00–09:20

APPLICATION OF PHOTONIC CRYSTALS FOR GENERATION OF BROADBAND RADIATION AT THE LINAC-200 LINEAR ACCELERATOR

Speaker

Maxim Karpov

09:40–10:00

The far field diffraction of a plane wave on a system of randomly and in average periodically located point scatterers: the Debye-Waller factor.

Speaker

Ashot Khachatrian

10:00–10:20

Distributions of quasars as an indicator of the homogeneity or inhomogeneity in the Universe

Speaker

Martik Hovhannisyan

10:20