



# Radiation from Relativistic Electrons in Periodic Structures "RREPS-19"

## Monday, September 16, 2019

### General Properties of Radiation from Relativistic Particles (9:10 AM - 1:00 PM)

time	[id] title	presenter
9:10 AM	[96] Radiative Processes with Twisted Electrons, Photons and Neutrons	SERBO, Valeriy
9:40 AM	[40] Electromagnetic Field of a Vortex Electron and Non-paraxial Effects	Dr KARLOVETS, Dmitry
10:10 AM	[85] Classical and Quantum Descriptions of Radiation from Relativistic Electrons in External Fields	ARTRU, Xavier
10:40 AM	[48] Applied research at the LHEP JINR accelerator complex	Dr BALDIN, Anton
11:10 AM	Coffe Break	
11:30 AM	[111] ARIES - Accelerator Research and Innovation for European Science	KULEVOY, Timur
12:00 PM	[74] Observation of coherent terahertz Smith-Purcell and grating transition radiation from a metasurface	SERGEEVA, Daria
12:20 PM	[25] Coherent effects in the ionization loss of high-energy electron bunches	TROFYMENKO, Sergii
12:40 PM	[89] Coherent OTR as a tool for transverse bunch size measurements	NOVOKSHONOV, Artem

## Tuesday, September 17, 2019

### General Properties of Radiation from Relativistic Particles (11:20 AM - 12:50 PM)

time	[id] title	presenter
11:20 AM	[30] Compton and Thomson inverse scattering as an X-ray source: state of the art and perspectives	FESHCHENKO, Anastasiya
11:50 AM	[14] Relationships between parameters of single atomic scattering and bremsstrahlung	Dr BONDARENCO, Micola
12:10 PM	[4] Conversion of Relativistic Electron Energy into One Photon when Interacting with Crystal .	Prof. KALASHNIKOV, Nikolay
12:30 PM	[1] Modified Baier-Katkov Method for Twisted Photon Radiation	KAZINSKI, Peter

### General Properties of Radiation from Relativistic Particles (3:00 PM - 3:20 PM)

time	[id] title	presenter
3:00 PM	[47] Lobachevsky space in analysis of relativistic nuclear interactions. Directed nuclear radiation - a new phenomenon.	BALDINA, Elina