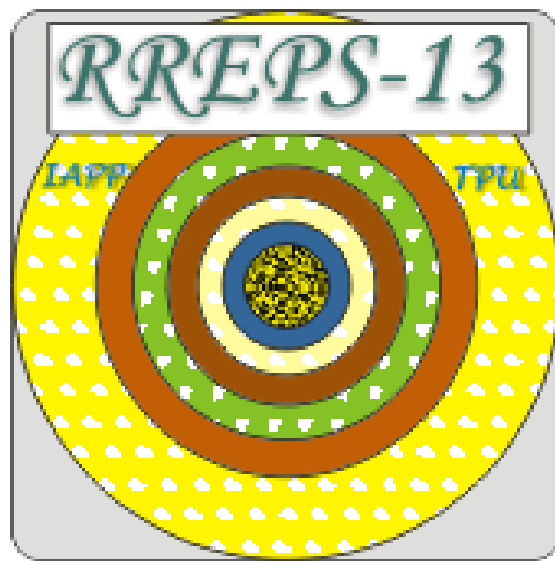


Radiation from Relativistic Electrons in Periodic Structures "RREPS-13" merged with "Meghri-13"



Report of Contributions

Contribution ID: **105**

Type: **not specified**

Spectral properties of Compton inverse radiation

Wednesday, 25 September 2013 13:30 (20 minutes)

Presenter: Dr BULYAK, Eugene (NSC KIPT)

Contribution ID: **106**

Type: **not specified**

Compact gamma-beam source based on Compton storage ring for nuclear waste management

Wednesday, 25 September 2013 13:50 (20 minutes)

Presenter: Dr GLADKIKH, Peter (NSC KIPT, Ukraine)

Contribution ID: **107**

Type: **not specified**

Radiation of Laser-channeled Electrons

Wednesday, 25 September 2013 14:10 (20 minutes)

Presenter: FROLOV, Evgenii (LPI RAS)

Contribution ID: **108**

Type: **not specified**

Feasibility of X-ray Cherenkov Radiation for Beam Diagnostics of Linear Accelerators

Wednesday, 25 September 2013 14:30 (20 minutes)

Presenter: KARATAEV, Pavel (Royal Holloway, University of London)

Contribution ID: **109**

Type: **not specified**

On Electromagnetic Radiation in the Atmosphere of the Excess Negative Charge in the Nuclear - Electromagnetic Cascade

Wednesday, 25 September 2013 14:50 (20 minutes)

Presenter: MALYSHEVSKY, Vyacheslav (S)

Contribution ID: 110

Type: **not specified**

Gamma Cherenkov-Transition Radiation of High Energy Electrons and Methods for the Measurement of the Refractive Index of MeV (Invited)

Tuesday, 24 September 2013 08:00 (30 minutes)

Presenter: KARO, Ispiryan (Yerevan Physics Institute)

Contribution ID: 111

Type: **not specified**

Radiation from Varying Velocity Charge in Flight through a Plate

Tuesday, 24 September 2013 08:30 (20 minutes)

Presenter: GRIGORYAN, Levon (Institute of Applied Problems in Physics)

Contribution ID: 112

Type: **not specified**

Investigation of EUV Backward Transition Radiation Characteristics Generated by 5.7 MeV Electrons in Mono- and Multilayer Targets

Tuesday, 24 September 2013 08:50 (20 minutes)

Presenter: SERGEY, Uglov (Tomsk Polytechnic University)

Contribution ID: 113

Type: **not specified**

Sub-micrometer Transverse Beam Size Diagnostics Using Optical Transition Radiation

Tuesday, 24 September 2013 09:10 (15 minutes)

Presenter: KRUCHININ, Konstantin (Royal Holloway, University of London)

Contribution ID: 114

Type: **not specified**

Electromagnetic Field of a Charge Intersecting Boundary Surfaces in a Waveguide

Tuesday, 24 September 2013 09:25 (15 minutes)

Presenter: ALEKHINA, Tatiana (Saint- Petersburg State University)

Contribution ID: 115

Type: **not specified**

Deviations from Garibian Effect for Ionization Losses of High-Energy Electrons in thin Plates

Tuesday, 24 September 2013 09:40 (15 minutes)

Presenter: TROFYMENKO, Sergii (Kharkov Institute of Physics and Technology)

Contribution ID: 116

Type: **not specified**

X-ray Imaging Based on Small-angle X-ray Scattering Using Spatial Coherence of Parametric X-ray Radiation (Invited)

Tuesday, 24 September 2013 10:15 (30 minutes)

Presenter: HAYAKAWA, Yasushi (Nihon University)

Contribution ID: 117

Type: **not specified**

Parametric X-Rays and Background Radiation at 50 GeV Proton Beam

Tuesday, 24 September 2013 10:45 (20 minutes)

Presenter: Dr SHCHAGIN, Alexander (Kharkov Institute of Physics and Technology)

Contribution ID: **118**

Type: **not specified**

Increase of Parametric X-ray Intensity due to the Borrmann Effect

Tuesday, 24 September 2013 11:05 (15 minutes)

Presenter: BENEDIKTOVITCH, Andrei (B)

Contribution ID: 119

Type: **not specified**

Quantum Jumps in PXRC Angular Distributions from Relativistic Channeled Electrons in a Crystal

Tuesday, 24 September 2013 11:20 (15 minutes)

Presenter: KOROTCHENKO, Konstantin (National Research Tomsk Polytechnic University)

Contribution ID: **120**

Type: **not specified**

Influence of Real Photons Diffraction Contribution on Parametric X-ray Observed Characteristics

Tuesday, 24 September 2013 11:35 (15 minutes)

Presenter: VNUKOV, Igor (Belgorod National Research University)

Contribution ID: **121**

Type: **not specified**

Diffraction Radiation Test at CsrTA for Non-Intercepting Micron-Scale Beam Size Measurement

Tuesday, 24 September 2013 13:30 (20 minutes)

Presenter: KARATAEV, Pavel (Royal Holloway, University of London)

Contribution ID: **122**

Type: **not specified**

Smith-Purcell Radiation from Surface Waves

Tuesday, 24 September 2013 13:50 (20 minutes)

Presenter: SAHARIAN, A. (Institute of Applied Problems in Physics, NAS, Yerevan, Armenia)

Contribution ID: **123**

Type: **not specified**

Coherent Diffraction and Cherenkov Radiation in Dielectric Fibers

Tuesday, 24 September 2013 14:10 (20 minutes)

Presenter: NAUMENKO, Gennady

Contribution ID: 124

Type: **not specified**

Selective amplification of separate spectral emission lines in the low-pressure acoustoplasma discharge

Tuesday, 24 September 2013 14:30 (20 minutes)

Presenter: ABRAHAMYAN, Aleksan (I)

Contribution ID: 125

Type: **not specified**

Electrical and optical spectroscopic studies of the parameters of the diffusely cooled acoustoplasmic glow discharge in the CO₂-laser

Tuesday, 24 September 2013 14:50 (20 minutes)

Presenter: AZHARONOK, Viktor (T)

Contribution ID: 126

Type: **not specified**

Wave packets in electromagnetic processes at high energy in matter (problem of half-bare electron) (Invited)

Wednesday, 25 September 2013 08:00 (30 minutes)

Presenter: SHUL'GA, Nikolai

Contribution ID: 127

Type: **not specified**

Coherent bremsstrahlung of relativistic electrons under the external acoustic field

Wednesday, 25 September 2013 08:30 (20 minutes)

Presenter: MKRTCHYAN, Alpik

Contribution ID: **128**

Type: **not specified**

Detectors of elementary particles based on porous composite materials

Wednesday, 25 September 2013 08:50 (20 minutes)

Presenter: MKRTCHYAN, Artak (I)

Contribution ID: **129**

Type: **not specified**

Multiphoton effects in coherent radiation sources

Wednesday, 25 September 2013 09:10 (15 minutes)

Presenter: BONDARENCO, Micola (NSC Kharkov Institute of Physics and Technology, Ukraine)

Contribution ID: **130**

Type: **not specified**

Energy loss of channeled positron in crystalline Wiggler

Wednesday, 25 September 2013 09:25 (15 minutes)

Presenter: GEVORGYAN, Lekdar (Y)

Contribution ID: **131**

Type: **not specified**

Scattering of 255 MeV Electrons at (220) Channeling in Silicon Crystal

Wednesday, 25 September 2013 09:40 (15 minutes)

Presenter: TUKHFATULLIN, Timur (National Research Tomsk Polytechnic University)

Contribution ID: 132

Type: **not specified**

Coherent Bremsstrahlung from planar channeled positron

Wednesday, 25 September 2013 09:55 (15 minutes)

Presenter: KUNASHENKO, Yuri (Tomsk State Pedagogical University Tomsk Polytechnic University)

Contribution ID: 133

Type: **not specified**

X-ray diffraction microscopy based on refractive optics (Invited)

Wednesday, 25 September 2013 10:30 (30 minutes)

Presenter: SNIGIREV, Anatoly (European Synchrotron Radiation Facility, Grenoble, France)

Contribution ID: 134

Type: **not specified**

Advanced piezoelectric crystals of $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ family

Wednesday, 25 September 2013 11:00 (20 minutes)

Presenter: ROSHCHUPKIN, Dmitry (Institute of Microelectronics Technology and High Purity Materials Russian Academy of Sciences)

Contribution ID: 135

Type: **not specified**

ON THE INTERFERENCE ABSORPTION OF X-RAYS IN CRYSTALS WITH WEAK DEFORMATIONS

Wednesday, 25 September 2013 11:20 (15 minutes)

Presenter: TROUNI, Karapet (I)

Contribution ID: 136

Type: **not specified**

Focusing of hard X-rays in crystals under external influences

Wednesday, 25 September 2013 11:35 (15 minutes)

Presenter: KOCHARYAN, Vahan (Institute of Applied Problems of Physics, NAS of Armenia)

Contribution ID: 137

Type: **not specified**

Application of Three Beam Diffraction for Determination of Structural Parameters of the Epitaxial Layers

Wednesday, 25 September 2013 11:50 (15 minutes)

Presenter: KYUTT, Reginald

Contribution ID: **138**

Type: **not specified**

New Source of High-energy Gamma Radiation in Atmosphere

Wednesday, 25 September 2013 15:30 (20 minutes)

Presenter: CHILINGARIAN, Ashot (Y)

Contribution ID: 139

Type: **not specified**

Ray-Optical Analysis of Radiation of a Charge Flying nearby a Dielectric Object

Wednesday, 25 September 2013 15:50 (20 minutes)

Presenter: Prof. TYUKHTIN, Andrey (Saint Petersburg State University)

Contribution ID: **140**

Type: **not specified**

Polarization Radiation in a Teflon Target

Wednesday, 25 September 2013 16:10 (15 minutes)

Presenter: NAUMENKO, Gennady

Contribution ID: **141**

Type: **not specified**

Multiple Filamentation of the UV Supercritical Laser Beam

Wednesday, 25 September 2013 16:25 (15 minutes)

Presenter: ZVORYKIN, Vladimir (P)

Contribution ID: 142

Type: **not specified**

Polarization Bremsstrahlung on Metallic Nanospheres in Liquids

Wednesday, 25 September 2013 16:40 (20 minutes)

Presenter: KROTOV, Yuri ("Polyus" R&D Institute named after M.F. Stelmakh)

Contribution ID: 143

Type: **not specified**

Experimental and Theoretical Spectroscopical Data of Radiation Channeling Inside μ -capillary Holed Glass Plates

Wednesday, 25 September 2013 17:00 (20 minutes)

Presenter: MAZURITSKIY, Mikhail (S)

Contribution ID: 144

Type: **not specified**

Influence of radiation on the nanoelectrical structure and scheme (Invited)

Thursday, 26 September 2013 08:00 (30 minutes)

Presenter: Dr ALEXANDROV, Peter (Russian Scientific Center “Kurchatov Institute”)

Contribution ID: 145

Type: **not specified**

Effect of the Thermal Heating of a Crystal on the Diffraction of Powerful Pulses of a Free-Electron X-Ray Laser

Thursday, 26 September 2013 08:30 (20 minutes)

Presenter: BUSHUEV, Vladimir (Moscow State University)

Contribution ID: 146

Type: **not specified**

High-resolution X-ray spectrometer based on acoustic monochromator

Thursday, 26 September 2013 08:50 (20 minutes)

Presenter: MOVSISYAN, Artur (I)

Contribution ID: 147

Type: **not specified**

Peculiarities of Parameter Control of the Electromagnetic Radiation of Angstrom Range

Thursday, 26 September 2013 09:10 (15 minutes)

Presenter: HAYRAPETYAN, Karlen

Contribution ID: 148

Type: **not specified**

Study of functional properties of diamond elements and their use under extreme radiation conditions

Thursday, 26 September 2013 09:25 (15 minutes)

Presenter: HARUTYUNYAN, V. (A Alikhanyan National Research Laboratory, Yerevan, Armenia)

Contribution ID: 149

Type: **not specified**

On the Radiation Generated through Multiple Volume Reflection in a Single Bent Crystal (Invited)

Thursday, 26 September 2013 10:00 (30 minutes)

Presenter: MAZZOLARI, Andrea (INFN Ferrara)

Contribution ID: **150**

Type: **not specified**

Crystal Devices for Beam Steering in the IHEP Accelerator

Thursday, 26 September 2013 10:30 (20 minutes)

Presenter: CHESNOKOV, Yury (Institute for High Energy Physics (RU))

Contribution ID: 151

Type: **not specified**

Simulation of Positron Energy Spectra Generated by Channeling Radiation of GeV Electrons in a Tungsten Single Crystal

Thursday, 26 September 2013 10:50 (20 minutes)

Presenter: AZADEGAN, Behnam (Hakim sabzevari university)

Contribution ID: 152

Type: **not specified**

Study of Coherent Interactions Between a Sub-GeV Electron Beam and a Thin Bent Silicon Crystal

Thursday, 26 September 2013 11:10 (20 minutes)

Presenter: BANDIERA, Laura (Universita di Ferrara (IT))

Contribution ID: 153

Type: **not specified**

The Possibility of Obtaining Intense Neutron Source on the base of proton Cyclotron C18

Thursday, 26 September 2013 11:30 (20 minutes)

Presenter: AVAKIAN, Robert

Contribution ID: 154

Type: **not specified**

To the problem of Coherent Electron Cooling

Thursday, 26 September 2013 11:50 (20 minutes)

Presenter: BESSONOV, Evgueni (The Lebedev Physical Institute of the Russian Academy of Sciences (LPI RAS))

Contribution ID: 155

Type: **not specified**

Diagnostics of Nanodispersive Polycrystals using Polarization Bremsstrahlung from Relativistic Electrons

Thursday, 26 September 2013 13:30 (20 minutes)

Presenter: KUBANKIN, Alexander (NRU BelSU)

Contribution ID: 156

Type: **not specified**

Undulator-based and Crystal-based Gamma Radiation Sources for Positron Generation

Thursday, 26 September 2013 13:50 (20 minutes)

Presenter: POTYLITSYN, Alexander (T)

Contribution ID: 157

Type: **not specified**

New X-ray Source for Medical Applications Based on Channeling Radiation and Polycapillary Optics

Thursday, 26 September 2013 14:10 (20 minutes)

Presenter: TISHCHENKO, Alexey (National Research Nuclear University (MEPhI))

Contribution ID: **158**

Type: **not specified**

On High-Energy Charged Particle Beam Diffusion in Crystal

Thursday, 26 September 2013 14:30 (20 minutes)

Presenter: KIRILLIN, Igor

Contribution ID: **159**

Type: **not specified**

Study of Surface Reflection of High Energy Protons from Solids at PNPI

Thursday, 26 September 2013 14:50 (20 minutes)

Presenter: IVANOV, Yury (B.P. Konstantinov Petersburg Nuclear Physics Institute - PNPI)

Contribution ID: **160**

Type: **not specified**

Coherent X-ray Cherenkov Radiation Produced by Microbunched Beams

Thursday, 26 September 2013 15:10 (20 minutes)

Presenter: AGHINYAN, Merine (Alikhanian National Scientific Laboratory (Yerevan Physics Institute))

Contribution ID: **161**

Type: **not specified**

Electromagnetic Field of Charged Particle Bunches Moving in Gyrotropic Media

Friday, 27 September 2013 08:30 (20 minutes)

Presenter: GALYAMIN, Sergey (Saint Petersburg State University)

Contribution ID: **162**

Type: **not specified**

Metamaterials on the basis of opal matrixes - perspective materials of radio electronics of ultrahigh frequencies

Friday, 27 September 2013 08:50 (20 minutes)

Presenter: BAGDASARYAN, Aleksandr (Institute of Radio-engineering and Electronics of RAS)

Contribution ID: **163**

Type: **not specified**

Features of Coherent Edge Radiation Angular Distribution

Friday, 27 September 2013 09:10 (20 minutes)

Presenter: NAUMENKO, Gennady

Contribution ID: **164**

Type: **not specified**

Zemax Simulations of Diffraction and Transition Radiation

Friday, 27 September 2013 09:30 (15 minutes)

Presenter: AUMEYR, Thomas (University of London (GB))

Contribution ID: **165**

Type: **not specified**

Simulation of Transition Radiation from a Flat Target using CST Particle Studio

Friday, 27 September 2013 09:45 (15 minutes)

Presenter: Dr LEKOMTSEV, Konstantin (KEK)

Contribution ID: **166**

Type: **not specified**

Coherent Radiation Spectrum Measurements at LUCX facility

Friday, 27 September 2013 10:20 (20 minutes)

Presenter: SHEVELEV, Mikhail (KEK)

Contribution ID: **167**

Type: **not specified**

Backward Smith-Purcell Radiation

Friday, 27 September 2013 10:40 (15 minutes)

Presenter: SERGEEVA, Daria (National Research Nuclear University (MEPhI))

Contribution ID: **168**

Type: **not specified**

Feasibility of Double Diffraction Radiation Target Interferometry for Compact Linear Accelerator Micro-train Bunch Spacing Diagnostics

Friday, 27 September 2013 10:55 (15 minutes)

Presenter: SHKITOV, Dmitry (TPU)

Contribution ID: **169**

Type: **not specified**

On THz Radiation from Dielectric Tube

Friday, 27 September 2013 11:10 (15 minutes)

Presenter: PONOMARENKO, Aleksandr (National Research Nuclear University “MEPhI”)

Contribution ID: 170

Type: **not specified**

Electromagnetic fields and the radiation of a charged particle rotating along a closed trajectory around a dielectric

Friday, 27 September 2013 11:25 (15 minutes)

Presenter: KOTANJYAN, Anna (Yerevan State University)