

Session Program

Sep 23 - 28, 2018



Channeling 2018

PS1 - Poster session

Mon, September 24

6:40 PM

PS1 - Poster session

Poster Session | Convener: Dariush Hampai

Charged Particle Bunch Radiation in Cherenkov Concentrator

Speaker

Dr Sergey Galyamin

Orbital Angular Momentum of Radiation at Axial Channeling

Speaker

Dr Julia Janz

The Electrons Capture into the Axial Channeling State as the Radiative Recombination Effect

Speaker

Ms Dina Badreeva

GEANT4 Simulation of Electromagnetic Shower Development in Oriented Crystals

Speaker

Ms Alesia Leukovich

Longitudinal Beam Profile Diagnostics Using Coherent Cherenkov Diffraction Radiation at CLARA Facility

Speaker

Mr Kirill Fedorov

Influence of Channeling Effect on Enhancement Factor for Reaction $D(3\text{He},p)^4\text{He}$ in Astrophysical Energy Region 16÷34 keV in ZrD Target

Speaker

Dr Timur Tukhfatullin

On Fast Charged Particles Scattering in a Thin Crystal Undulator

Speaker

Prof. Nikolai Shul'ga

GEANT4 Simulation of Energy Deposition in Lead Fluoride Calorimeter for g-2 Experiment

Speaker

Mr Aleksandr Savchenko

Processes of Coherent and Incoherent Scattering of Charged High-Energy Particles in Ultra Thin Targets

Speaker

Prof. Nikolai Shul'ga

Coherent Bremsstrahlung from Axially Channeled Electrons

Speaker

Prof. Yuri Kunashenko

Generation of Twisted Photons by Bent Crystals

Speakers

Dr Oleg Bogdanov, Dr Peter Kazinski

Spin Rotation of Planar Channeled Muons and Anti-Muons in Bent Crystal

Speaker

Ms Xiatong Li

Experimental and Theoretical Investigations of Generation and Transmission Mechanisms of Cherenkov Radiation in an Optical Fiber

Speaker

Mr Sergei Stuchebrov

Large-Angle Channeling Radiation by Relativistic Muons

Speaker

Ms Xiatong Li

Ultraviolet Channeling Radiation by Protons Accelerated at Medical Units

Speaker

Mr Yury Eikhorn

The Polarization Characteristics of Radiation from Electrons Channeled in a Half-Wave Crystal

Speaker

Dr Oleg Bogdanov

Investigation of the Wake Potentials in the Orientational Motion of Charged Particles in Ionic Crystals

Speaker

Dr Nikolai Maksyuta

Photonic Crystal-Based Compact High-Power Vacuum Electronic Devices

Speaker

Prof. Vladimir Baryshevsky

The Channeling Radiation from Positron Bunch in Nanotubes with Polarization Inhomogeneity

Speaker

Mr Koryun Gevorgyan

Channeling Radiation of Twisted Phonons from Axially Channeled Polarized Electrons

Speaker

Prof. Yuri Kunashenko

Peculiarities of Channeling and Generated Radiation of Relativistic Electrons in the Charged Axes of Lithium Hydride Crystals

Speaker

Dr Nikolai Maksyuta

On the Restructuring of the Radiation Spectrum at Three-Frequency Parametric Interaction during Plane Electron Channeling in the Crystals with the Structure of a Zinc Blende

Speaker
Dr Nikolai Maksyuta

Tunable Optical Radiation Formed in Crystalline Undulator

Speaker
Mr Hayk Gevorgyan

Coherent Radiation Characteristics of Modulated Positron Bunch, Formed in Crystalline Undulator

Enhancement of Neutrons Yield in dd Reactions within a TiD₂ Crystalline under Irradiation by a Deuterium Ion Beam

Speaker
Dr Behnam Azadegan

On Coherency of Gamma Photons

Speaker
Dr Eugene Bulyak

Backward X-ray TR from a Multilayered Structure

Speaker
Mr Aleksandr Savchenko

Radiation of a Bunch in a Waveguide with a Semibounded Anisotropic Dielectric

Speaker
Dr Tatiana Alekhina

Radiation from a Dielectrically Loaded Waveguide with Open End

Speaker
Dr Sergey Galyamin

7:40 PM