Session Program

6-12 Sept 2015



Radiation from Relativistic Electrons in Periodic Structures "RREPS-15"

1. General Aspects of Physical Phenomena and Processes Associated with Electromagnetic Radiation

Monday 7 September

10:20 1. General Aspects of Physical Phenomena and Processes Associated with Electromagnetic Radiation: Day 1

Session | Convener: Pavel Karataev

10:20-10:50

Twisted Photons and Electrons as a New Tool in Physics of Atoms, Nuclei and Elementary Particles

Speaker

Prof. Valeriy Serbo

10:50-11:20 Radiation Sources and their Applications for Beam Profile Diagnostics

Speaker

Gero Kube

11:20 11:40

1. General Aspects of Physical Phenomena and Processes Associated with Electromagnetic Radiation: Day **1** (continue)

Session | Convener: Pavel Karataev

11:40-12:10

Generation of Concentrated Radiation of Particle Bunches Using Dielectric Targets and Wire Structures

Speaker

Andrey Tyukhtin

12:10-12:25

Radiation of a Charged Particle Bunch Moving Along the Edge of Semi-infinite Planar Periodic Wire Structure

Speaker

Viktor Vorobev

12:25-12:40

Improved separation of hard and soft components in the multiple Coulomb scattering distribution

Speaker

Micola Bondarenco

12:40-12:55

Influence of an Electric Field on the Propagation of a Photon in a Magnetic field

Speaker

Valeriy Katkov

12:55-13:10

Transformation of a Symmetrical TM Mode at the Open End of Cylindrical Waveguide with Dielectric Loading

Speaker

Sergey Galyamin

Thursday 10 September

10:00-10:30 Dielectric Based THz Radiation and Acceleration: Present Status and Persp. Speaker Alexei Kanareykin 10:30-11:00 High Brightness Compton X-ray Source Development at KEK Speaker Nobuhiro Terunuma 11:00-11:15 Intense laser focused profile measurement by scanning electron beam via It Compton scattering Speaker Prof. Masakazu Washio 11:15-11:30 Muon cooling by channeling in laser fields Speaker Dr Alexey Dik 11:30-11:45 Radiation from relativistic electrons in "light undulator" and in convention undulator. Quantum and classical approaches. Speaker Alexander Potylitsyn 11:45-12:00 On space charge effect at charged particles channeling in lase Speaker Mr Evgenii Frolov 1. General Aspects of Physical Phenomena and Processes Associ with Electromagnetic Radiation: (day 2 contrue) Session Convener: Andrey Tyukhtin
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12:30-13:00
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12.50 15.00
Coherent Light Induced in Optical Fibers by a Charged Particle. Common
Characteristics of Synchrotron Radiation and Light Escaping a Bent Fiber
Sneaker

Coherent radiation of relativistic electrons in dielectric fibers for the beam diagnostics

14:00	Speaker Vitold Bleko	
	13:15-13:30 Speaker	Coherent radiation of relativistic electrons in a wire metamaterial
	Ms Veronika Sok 13:30-13:45	Observation of Cherenkov Effect Near L- Absorbtion Edge of Al
	Speaker Sergey Uglov	
	13:45-14:00	The Synchrotron Radiation of the Transversal Oscillator
	Speaker Anna Kotanjyan	