

Technical Program

Sunday, October 26

A PRIMER SESSION

9:00–9:30 Opening (S. Dabagov, L. Palumbo, M. Calvetti, C. Guaraldo)
9:35–10:15 **A. Zichichi** (*to be announced*) /invited/

Coffee break (20 min)

10:45–11:15 **G. Barbiellini**
Channeling in Frascati INFN /invited/
11:20–11:50 **N. Shul'ga**
Advances in Coherent Bremsstrahlung and LPM-effect Studies (in commemoration of the 100th anniversary from the birth of L.D. Landau)
/invited/
11:55–12:25 **A. Potylitsyn**
Monochromatic X-ray Sources Based on Table-Top Electron Accelerators and X-ray Tubes /invited/

Lunch (1h 30min)

14:00–14:30 **R. Ruth**, J. Rifkin, and R. Loewen
The Compact Light Source: A Miniature Synchrotron /invited/
14:35–15:05 **J. Faure**
Laser-Plasma Based Electron Accelerators /invited/
15:10–15:40 **V. Rozanov**
The Radiation Yield in Different Spectral Ranges from Low Density Structured Laser Plasma with Different High Z-Admixture /invited/

Coffee break (20 min)

16:05–16:35 **S. Fomin**, Y. Mel'nik, V. Pilipenko, and N. Shul'ga
Challenge Safe Fast Reactor Working in a Nuclear Burning Wave Regime /invited/
16:40–17:10 **S. Connell**
Physics of Diamond and Applications /invited/

17:15-17:45

L. Serafini

Compton Sources: Physics and Applications, Following SPARC & PLASMONX Projects /invited/

22:00

Welcome Party

Monday, October 27

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| Session: | S3.1 – Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | H. Backe |
| 9:00–9:30 | X. Artru , G. Naumenko, A. Potylitsyn, Yu. Popov, and L. Sukhikh, <i>Shadowing of the Electromagnetic Self-Field of a Relativistic Electron</i> /invited/ |
| 9:35–9:50 | E. Bessonov <i>Methods of Charged Particle Beam Cooling</i> |
| 9:55–10:10 | M. Ryazanov , M. Strikhanov, and A. Tishchenko <i>Backward Transition Radiation at Grazing Incidence on Rough Metal Surface as a Source of THz Radiation</i> |
| 10:15–10:30 | N. Shul'ga , V. Syshchenko, and S. Shul'ga <i>Equivalent Photon Method and Eikonal Approximation in the Theory of Transition Radiation</i> |

Coffee break (20 min)

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|-------------|---|
| Session: | S3.2 – Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | F. Komarov |
| 10:55–11:25 | R. Avakian <i>PXR and DTR Radiations of 4.5 GeV Electrons in Diamond and Quartz Crystals</i> /invited/ |
| 11:30–11:45 | M. Castellano , E. Chiadroni, and A. Cianchi <i>Diffraction Radiation as a Diagnostics Tool at FLASH</i> |
| 11:50–12:05 | A. Lobko <i>Compact PXR Sources: Achievable Parameters and Possible Applications</i> |
| 12:10–12:25 | K. Ispirian , A. Gogolev, and A. Potylitsyn <i>Ray Tracing Calculation of PXR Produced in Curved and Flat Crystals by Electron Beams with Large Emittance</i> |

Lunch (1h 30min)

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|------------------------------|---|
| Session: | S1.1 – Coherent Bremsstrahlung |
| Chair: | A. Potylitsyn |
| 14:00-14:30 | N. Baier , and V. Katkov <i>Spectra of Radiation and Created Particles at Intermediate Energy in Oriented Single Crystal /invited/</i> |
| 14:35-15:05 | U. Uggerhoj (representing CERN NA63) <i>Trident Production Observed in Aligned Crystals /invited/</i> |
| 15:10-15:25 | S. Fomin , A. Fomin, and N. Shul'ga <i>Bremsstrahlung in a Thin Layer of Matter at High Energy</i> |
| 15:30-15:45 | Alper Dizdar (CERN NA63) <i>Radiation from Thin Structured Targets</i> |
| Coffee break (20 min) | |
| Session: | S1.2 – Coherent Bremsstrahlung |
| Chair: | D. Giulietti |
| 16:10-16:25 | A. Mkrtchyan , and V. Parazian <i>The Induction of Coherent X-Ray Bremsstrahlung in Crystals Under the Influence of Acoustic Waves</i> |
| 16:30-16:45 | V. Ganenko , K. Fissum, J. Brudvik, D. Burdeinyi, K. Hansen, L. Isaksson, K. Livingston, M. Lundin, V. Morokhovskyi, B. Nilsson, B. Schröder, and G. Vashchenko <i>The Coherent Bremsstrahlung Beam at MAX-lab Facility</i> |
| 16:50-17:05 | V. Maisheev <i>Coherent Processes in Bent Single Crystals</i> |
| 17:10-17:25 | D. Karlovets <i>On a Dual Symmetry in Some Boundary-Value Problems of Classical Electrodynamics</i> |
| 17:30-17:45 | I. Vnukov , D. Baklanov, N. Maslov, A. Mazilov, R. Shatokhin, and Yu.Zhandarmov <i>Tunable X-ray Source Based on Mosaic Crystals Using for Medical Applications</i> |

- PS1-1. Spectra of Radiation of Relativistic Electrons at Axial Channeling in the Crystals, **A.A. Ananeva**, O.V. Bogdanov, K.B. Korotchenko, and Yu.L.Pivovarov
- PS1-2. Calculations of Channeling Radiation Spectra from Relativistic Electrons and Positrons in a Thin Si Crystal **O.V. Bogdanov**, and Yu.L. Pivovarov
- PS1-3. Channeling Radiation from Relativistic Electrons in a Crystal Target: New Kind of Combinational X-Ray Radiation Emitted at Bragg's Angle K.B. Korotchenko, Yu.L. Pivovarov, T.A. Tukhfatullin, and **E.I. Fiks**
- PS1-4. Radiation Spectra of Two Hundred MeV Electrons in Diamond and Silicon Crystals at Axial and Planar Orientations K. Fissum, J. Brudvik, D. Burdeinyi, **V. Ganenko**, K. Hansen, L. Isaksson, K. Livingston, M. Lundin, V. Morokhovskyi, B. Nilsson, B. Schröder, and G. Vashchenko
- PS1-5. Enhancement of Radiated Photons Number and Energy by the Planar Channeled and Quasi-channeled Electrons in Complex Crystals **L.Gevorgian**
- PS1-6. Formation of Relativistic Positron Systems and Their Decay to Gamma-rays by the Axial Channelling of Positrons in Ionic Crystals **A.S.Gevorkyan**, and A.R. Mkrtchyan
- PS1-7. Quantum Uncertainties in the Energy of Transverse Oscillations of Planar Channeled Particle **L. Grigoryan**, W. Wagner, H. Khachatryan, and B. Azadegan
- PS1-8. Calculation of the Photon Spectrum Radiated by a Planarly Channeled Positron Bunch with Allowance for the Medium Polarization **L.A.Hovsepyan**
- PS1-9. On the Connection Between Diffraction Radiation and Transition Radiation **D. Karlovets**, and A. Potylitsyn
- PS1-10. The Role of the Structure Imperfectness in Formation of the Emission Spectrum from a Crystalline Undulator A. Kostyuk, **A.V. Korol**, A.V.Solov'yov, and W. Greiner
- PS1-11. Theory of New Combinational X-Radiation of Electrons under Axial Channeling in Crystals **K.B. Korotchenko**
- PS1-12. Measurement of Grain Size by Means of Polarization Bremsstrahlung from Relativistic Electrons Moving in Small-Grained Media P.N.Zhukova, **A.S. Kubankin**, N.N. Nasonov, and V.I. Sergienko
- PS1-13. Coherent e^+e^- Pair Photoproduction In Crystal In A Channeled States **Yu.P. Kunashenko**
- PS1-14. The General Theory of Bremsstrahlung by High Energy Electrons in Periodically Deformed (by Acoustic Wave) Single Crystal **V.Parazian**, A. Mkrtchyan, and A. Saharian

- PS1-15. Positron Channeling Experiments at the DAFNE BTF Facility: the CUP Experiment B.Buonomo, S.B. Dabagov, G. Mazzitelli, and L. Quintieri
- PS1-16. Ion-Luminescence in the CdS Type Crystals of Low- Energy Ions Channeling A.Rasulov, A. Abdukadirov, and M. Khaydarov
- PS1-17. On Coherent and Transition Radiation by Relativistic Electrons in the Field of Periodically Deformed Crystal Planes of Atoms N.F. Shul'ga, and V.V. Boyko
- PS1-18. On Possibility of Classically Radiationless Motions of Relativistic Charge Distributions in Periodical Structures N.F. Shul'ga
- PS1-19. Hard Incoherent Radiation in Thick Crystals N.F. Shul'ga, V.V.Syshchenko, and A.I. Tarnovsky
- PS1-20. On Some Details of Radiation of Fast Particles on Fibers V.V.Syshchenko, and N.V. Soboleva
- PS1-21. Polarization Of Coherent Type B Bremsstrahlung S.S. Tsirkin, and Yu.P. Kunashenko
- PS1-22. Planar Channeling of Electrons in Si and LiF Crystals: New Kind of Combinational X-Ray Radiation Emitted at Bragg's Angle O.V. Bogdanov, K.B. Korotchenko, Yu.L. Pivovarov, and T.A. Tukhfatullin
- PS1-23. Channelling Radiation from Relativistic Electrons in a Crystal Target as Complementary X-Ray and Gamma Ray Source at Synchrotron Light Facilities K.B. Korotchenko, Yu.L. Pivovarov, and T.A. Tukhfatullin
- PS1-24. The Proposal of the Experiment on the Research of the Diffracted Channeling Radiation D.A. Baklanov, A.N. Ermakov, V.K. Grishin, R.A.Shatokhin, I.E. Vnukov, and Yu.V. Zhandarmov
- PS1-25. The Formation and Usage of Coherent Correlated Charged Particles States in the Physics of Channeling in Crystals V.I.Vysotskii, S.V.Adamenko, and M.V.Vysotskyy
- PS1-26. Unknown Anomalous of Doppler Effect at Extreme Cherenkov Condition During Relativistic Channeling in Perfect Crystals M.V. Vysotskyy, and V.I. Vysotskii
- PS1-27. Diagnostics of Mosaic Crystals by the Scattering of Synchrotron Radiation P.N. Zhukova
- PS1-28. An Intense Channeling Radiation X-ray Source W. Wagner, B.Azadegan, M. Sobiella, J. Steiner, K. Zeil, and J. Pawelke

Tuesday, October 28

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| Session: | S3.3 – Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | A. Pathak |
| 9:00–9:30 | V. Baryshevsky <i>Volume Free Electron Lasers /invited/</i> |
| 9:35–9:50 | Kh. Chouffani <i>Laser-Compton Scattering from Intermediate Energy Electron Beams</i> |
| 9:55–10:10 | Y. Adischev , K. Artemov, K. Afanasiev, V. Bespalov, A. Gogolev, A. Vukolov, I. Kurkan, S. Polevin, A. Potylitsyn, V. Ryzhov, and I.Tropin <i>The Powerful Nanosecond Duration Electron Beam Effect on the Crystalline Tungsten Target</i> |
| 10:15–10:30 | A. Cianchi (on behalf of SPARC team) <i>The Status of the SPARC Project</i> |

Coffee break (20 min)

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|-------------|--|
| Session: | S4.1 – Channeling & Crystal Collimation |
| Chair: | W. Scandale |
| 10:55–11:25 | R. Carrigan, Jr. <i>Muon Channeling and the Need to Investigate Negative Particle Channeling and Collimation /invited/</i> |
| 11:30–11:45 | V. Tikhomirov , V. Guidi, and A. Mazzolari <i>New Possibilities to Facilitate Collimation of Both Positively and Negatively Charged Particle Beams by Crystals</i> |
| 11:50–12:05 | S. Hasan <i>CRYM: a Crystal Channeling Emulation Code Based on the Latest Experimental Data</i> |
| 12:10–12:25 | N. Gordillo , R. González-Arrabal, and D. Martín y Marero <i>A Study of the Coulomb Explosion of High Energy Ions by Comparing Computing Simulations and Experiments</i> |

Lunch (1h 30min)

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| Session: | S4.2 – Channeling & Crystal Collimation |
| Chair: | U. Uggerhøj |
| 14:00–14:30 | W. Scandale <i>Bent Crystals in the LHC: A Way to Improve the Collimation Efficiency in Modern Hadron Colliders /invited/</i> |
| 14:35–15:05 | V. Guidi , S. Baricordi, P. Dalpiaz, M. Fiorini, and A. Mazzolari <i>Observation of High-Efficiency Axial Channeling of High-Energy Protons in a Bent Crystals /invited/</i> |
| 15:10–15:25 | Y. Kunashenko , and Y. Pivovarov <i>Creation of Relativistic Positronium Atom by Relativistic Axially Channeled Electron</i> |
| 15:30–15:45 | A. Redondo-Cubero , K. Lorenz, N. Franco, S. Fernández-Garrido, R. Gago, E. Muñoz, and E. Alves <i>Influence of Steering Effects on Ion Channeling Determination of Strain in GaN-based Heterostructures</i> |

Coffee break (20 min)

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|-------------|--|
| Session: | S4.3 – Channeling & Crystal Collimation |
| Chair: | V. Guidi |
| 16:10–16:25 | E. Tsyganov <i>Thermal Equilibrium of Light Ions in Heavy Crystals</i> |
| 16:30–16:45 | M. Vysotskyy , and V. Vysotskii <i>Parametric Channeling and Collapse of Beams of Charged Particles in Crystals</i> |
| 16:50–17:05 | Juby George , and A. Pathak <i>Dechanneling of Positrons by Dislocations: Effects of Anharmonic Interactions</i> |
| 17:10–17:25 | G. Tolstolutskaya <i>Analysis of Lattice Distortion by Dechanneling</i> |
| 17:30–17:45 | V. Zvorykin , A. Ionin, S. Kudryashov, A. Levchenko, A. Molchanov, L. Seleznev, D. Sinitsyn, and N. Ustinovskii <i>Plasma Channels in Air Produced by UV Laser Beam: Mechanisms of Photoionization and Possible Applications</i> |

- PS2-1. The Possibility of Acceleration of the Charged Particles in Low Temperature Acoustoplasma **A.S. Abrahamyan**, A.R. Mkrtchyan, and R.B. Kostanyan
- PS2-2. Computer Simulations of Experiments on Resonant Coherent Excitation of Ar¹⁷⁺ Ions under Planar Channelling **A.A. Babaev**, and Y.L.Pivovarov
- PS2-3. Optimization of Relativistic Electron Diffracted Transition Radiation Yield **S.V. Blazhevich**, and A.V. Noskov
- PS2-4. New Experimental Results with Optical Diffraction Radiation Diagnostics **E. Chiadroni**, M. Castellano, A. Cianchi, K. Honkavaara, and G. Kube
- PS2-5. Observation of Dynamical Maxima of Parametric X-Ray Radiation For 20 MeV Electron Energy Beam **G.K. Khachaturyan**, A.R. Mkrtchyan, and A.H. Mkrtchyan
- PS2-6. Peculiarities in Extreme Ultraviolet Transition Radiation **A.S. Kubankin**
- PS2-7. Coherent Creation of Antihydrogen Atoms in a Crystal **Y.P. Kunashenko**
- PS2-8. Soft X-Ray Channeling in Polycapillary Structures at the Condition of Anomalous Dispersion Region of SiL-Edge Absorption **M. Mazuritskiy**, S. Dabagov, and P. Makhno
- PS2-9. Fabrication of Crystals for Channeling of Particles in Accelerator **A. Mazzolari**, S. Baricordi, V. Guidi, G. Martinelli, D. Vincenzi, and M. Ferroni
- PS2-10. Transition Radiation of Relativistic Electrons on Acoustic Superlattice in Amorphous Media **A. Mkrtchyan**, V. Kocharyan, Z. Amirkhanyan, G. Khachaturyan, and A. Movsisyan
- PS2-11. Slowing Down of Relativistic Heavy Ions in Radiator: Influence on Angular Distribution and Total Yield of Cherenkov Radiation **V.R. Altapova**, O.V. Bogdanov, and **Yu.L. Pivovarov**
- PS2-12. Resonant Coherent Excitation of Relativistic Hydrogen-like Uranium Ions in a Silicon Crystal at FAIR: a Computer Simulation **A. Babaev**, K. Klimova, and **Y. Pivovarov**
- PS2-13. The Comparison of Monochromatic X-ray Sources Based on X-ray Tube and 5 MeV Microtron **A.S. Gogolev**, S.I. Kuznetsov, **A.P. Potylitsyn**, Yu.A. Popov, S.R. Uglov, A.V. Vukolov, A.R. Wagner, V.N. Zabaev, and I.V. Zaitsev

- PS2-14. Structural Investigations of ZnO Thin Films Grown by Reactive Pulsed Magnetron Sputtering at Different Substrate Temperatures **A.Redondo-Cubero**, M. Vinnichenko, M. Krause, and R. Gago
- PS2-15. Synchrotron Radiation from a Charge Moving Along Helical Orbit Around a Dielectric Cylinder **A.A. Saharian**, A.S. Kotanjyan
- PS2-16. Coherent Pair Production in Crystals in Presence of Acoustic Waves **A.R. Mkrtchyan**, **A.A. Saharian**, and V.V. Parazian
- PS2-17. The La, Pb, Sn Contained Micro- and Nanocrystals Incorporated into AX (A= Cs, K, Na, Rb; X=Cl, Br, I) Matrixes as Materials for X-ray Detectors **A.S. Voloshinovskii**, **P.V. Savchyn**, G.B. Stryganyuk, S.V. Myagkota, V.V. Vistovskyy, O.T. Antonyak, Z.A. Khapko, and I.D. Karbovnyk
- PS2-18. Hard Photons Powerful Radiation of Electron Bunch Interacting with Plasma Beat Waves **A.Shamamian**, and L. Gevorgian High Spectral Density of Focused Parametric X-ray Radiation **A.V.Shchagin**
- PS2-19. Spectra of Electrons and Ions in Pyroelectric Accelerator **V.I.Nagaychenko**, and **A.V. Shchagin**
- PS2-20. LABSYNC: A Project to Develop a European Facility Based on a Table-top Synchrotron Light Source **G. Di Domenico**, A. Franconieri, M.Gambaccini, M. Marziani, **A. Taibi**, A. Tartari, and J.P. Locquet
- PS2-21. Increase of Probability of Particle Capture into the Channeling Regime by the Buried Oxide Layer **V. Guidi**, A. Mazzolari, and **V.V.Tikhomirov**
- PS2-22. Smith-Purcell Radiation from an Ideal-Conducting Grating Disposed on a Dielectric Layer **A.A. Tishchenko**, D.V. Karlovets, A.P. Potylitsyn, and M.N. Strikhanov

Wednesday, October 29

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| Session: | S3.4 - Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | K. Chouffani |
| 9:00-9:30 | I. Endo , M. Tanaka, and T. Yoshimura <i>Introduction of Small Accelerators in Student Laboratory for Engineering Education /invited/</i> |
| 9:35-10:05 | J. Fernandez , V. Scot, D. Sivieri, and A. Guidetti <i>Selective Amplification of X-rays in the Energy Range 30-70 keV /invited/</i> |
| 10:10-10:40 | P. Wobrauschek , and C. Streli <i>X-ray Fluorescence Analysis with Ultimate Sources, Optics and Detectors – Applications and Results /invited/</i> |
| 10:45-11:15 | K. Tsuji , M. Yamaguchi, and T. Yonehara <i>Feasibility of X-ray Energy Filtering by Using Polycapillary X-ray Optics /invited/</i> |

Excursion

Thursday, October 30

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| Session: | S5.2 – X-Ray Channeling & X-Ray Optics & Applications |
| Chair: | P. Childs |
| 9:00-9:30 | F.F. Komarov , and A.S. Kamyshan <i>Time And Angular Distributions Of Ions Transmitted Through Insulating Capillaries /invited/</i> |
| 9:35-9:50 | S. Pogossian <i>Neutron Number Enhancement in Uranium Thin Film Waveguides</i> |
| 9:55-10:10 | Y. Pivovarov , A. Babaev, K. Korotchenko, Y. Kunashenko, and T. Tukhfatullin <i>Schwingher Scattering of Neutron Beam in Aligned Crystal and by Crystal Surface</i> |
| 10:15-10:30 | D. Hampai , S. Dabagov, G. Cappuccio, A. Longoni, T. Frizzi, G.Cibin, V. Guglielmotti, M. Sala, and V. Sessa <i>X-ray Microfocusing by Polycapillary Optics</i> |

Coffee break (20 min)

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|-------------|---|
| Session: | S2.1 – Channeling Radiation & Related Phenomena |
| Chair: | X. Artru |
| 10:55-11:25 | H. Backe , W. Lauth, P. Kunz, and U.I. Uggerhøj <i>Advances in Electron and Positron Channeling Studies /invited/</i> |
| 11:30-11:45 | W. Lauth , H. Backe, P. Kunz, and U.I. Uggerhøj <i>Channeling Experiments with Electrons at the Mainz Microtron MAMI</i> |
| 11:50-12:05 | R. Chehab , X. Artru, M. Chevallier, T. Kamitani, T. Omori, L. Rinolfi, V. Strakhovenko, T. Suwada, A. Variola, and A.Vivoli <i>A Positron Source Using Channeling in Crystals for Linear Colliders</i> |
| 12:10-12:25 | L. Gevorgyan <i>Intense Quasi-Monochromatic Directed X-Ray Radiation of Planar Channeled Positron Bunch</i> |

Lunch (1h 30min)

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| Session: | S3.5 - Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | I. Endo |
| 14:00-14:30 | H. Nitta <i>Diffracted Channeling Radiation and Other Compound Radiation Processes /invited/</i> |
| 14:35-15:05 | L. Gizzi, et al. <i>Laser-Plasma Acceleration: First Experimental Results from the PLASMONX Project /invited/</i> |
| 15:10-15:25 | D. Giulietti (on behalf of PLASMON-X team) <i>The Status of the PLASMONX Project</i> |
| 15:30-15:45 | X. Artru, and C. Ray <i>Acceleration and Radiation in a Helical Cavity</i> |
| Coffee break (20 min) | |
| Session: | S3.6 - Novel Sources: PXR & TR & DR & FEL & Plasma |
| Chair: | L. Serafini |
| 16:10-16:25 | Y. Hayakawa , K. Hayakawa, M. Inagaki, T. Kuwada, K. Nakao, K. Nogami, T. Sakai, I. Sato, Y. Takahashi, and T. Tanaka <i>Geometrical Effect of Target Crystal on PXR Generation as a Coherent X-ray Source</i> |
| 16:30-16:45 | V. Malyshevsky <i>Effect of Heavy Ion Charge Fluctuations on Cherenkov Radiation</i> |
| 16:50-17:05 | G. Mazzitelli , B. Buonomo, F. Murtas, L. Quintieri, and P. Valente <i>The Dafne Beam Test Facility</i> |
| 17:10-17:25 | A.A. Tishchenko , M.I. Ryazanov, and M.N. Strikhanov <i>X-Ray Transition Radiation at Grazing Incidence from Uneven Surfaces</i> |
| 17:30-17:45 | G. Naumenko , A. Potylitsyn, L. Sukhikh, and Y. Popov <i>Experimental Investigation of Smith-Purcell Radiation Focusing by Using the Parabolic Periodical Targets</i> |
| 20:00 | Social Dinner |

Friday, October 31

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| Session: | S5.3 – X-Ray Channeling & X-Ray Optics & Applications |
| Chair: | W. Wagner |
| 9:00–9:30 | P. Childs , S. Ong, D. Herbert, and A. O'Neill <i>X-ray Propagation in Multiwalled Carbon Nanotubes /invited/</i> |
| 9:35–9:50 | A. Ciorba , V. Guglielmotti, S. Orlanducci, V. Sessa, F. Toschi, M. Terranova, M. Lucci, F. Odorici, L. Malferrari, R. Angelucci, R. Rizzoli, G. Veronese, M. Rossi, and D. Hampai <i>Electron Sources Based on the Field Emission Properties of Carbon Nanotube Systems Organized at the Micro- and Mesoscopic Scale</i> |
| 9:55–10:10 | V. Vysotskii , and S. Adamenko <i>Surface Channeling of Magnetic-Charged Particles on Multilayer Surface: Part-I</i> |
| 10:15–10:30 | V. Vysotskii , and S. Adamenko <i>Surface Channeling of Magnetic-Charged Particles on Multilayer Surface: Part-II</i> |
| Coffee break (20 min) | |
| Session: | S2.2 – Channeling Radiation & Related Phenomena |
| Chair: | H. Nitta |
| 10:55–11:25 | W. Wagner , B. Azadegan, H. Büttig, L. Grigoryan, M. Sobiella, and J. Pawelke <i>Probing Channeling Radiation Influenced by Ultrasound /invited/</i> |
| 11:30–11:45 | B. Azadegan , L. Grigoryan, and W. Wagner <i>Treatment of Planar Channeling Radiation under the Influence of Ultrasound</i> |
| 11:50–12:05 | S.V. Blazhevich , and A.V. Noskov <i>On Dynamic Effects in Coherent X-radiation of Relativistic Electron in Bragg Scattering Geometry</i> |
| 12:10–12:25 | D. Lietti , D. Bolognini, P. Dalpiaz, M. Fiorini, V. Guidi, S. Hasan, A. Mazzolari, R. Milan, M. Prest, E. Vallazza, and A. Vomiero <i>Study of the Radiation Emitted by Low Energy Electrons and Positrons in Bent Crystals</i> |

Lunch (1h 30min)

Session:

Chair:

S2.3 – Channeling Radiation & Related Phenomena

G. Mazzitelli

14:00-14:30

A. Solov'yov, A. Korol, A. Kostyuk, and W. Greiner

Crystalline Undulator: Theoretical Advances /invited/

14:35-15:05

A. Pathak, J. George, and A. Solov'yov

Effects of Dislocations on Positron Channeling in a Periodically Bent Crystal /invited/

15:10-15:25

A. Korol, A. Kostyuk, A. Soov'yov, and W. Greiner

On the Feasibility of an Electron-Based Crystalline Undulator

15:30-15:45

A. Kostyuk, A. Korol, A. Solov'yov, and W. Greiner

Radiation from a Modulated Positron Beam in the Crystalline Undulator

Coffee break (20 min)

16:10-16:30

Closing