

September 27, 2021, Monday			
9:00-13:00	Registration		
9:30-10:00	Opening session <i>I. Meshkov, B. Sharkov</i>		
10:00-10:35	Session 1.1. Modern trends in Russian accelerator technology <i>Chairman I. Meshkov Secretary</i>		
10:00-10:35 35 min	B. Sharkov (JINR, Dubna)	Development of Physics and Technology of Particle Accelerators for Basic Science and Applications	MOX01
10:35- 11:05	Special session 1. V. I. Veksler Prize Winners <i>Chairman I. Meshkov Secretary</i>		
10:35-11:05 30 min	S. Gavrilov (INR RAS, Moscow)	Development and Implementation of Bunch Shape Instrumentation for Ion Linacs	MOX02
11:05-11:25	Coffee-break		
11:25-12:00	Session 1.2. Modern trends in Russian accelerator technology <i>Chairman B. Sharkov Secretary</i>		
11:25- 12:00 35 min	E. Levichev (BINP SB RAS, Novosibirsk)	Modern Trends in Development of Super High Energy Circular Colliders	MOX03
12:00- 13:30	Session 2.1. Modern accelerator projects in Russia <i>Chairman B. Sharkov Secretary</i>		
12:00-12:30 30 min (on-line)	A. Butenko (JINR, Dubna)	The NICA Complex Injection Facility	MOY01
12:30-13:00 30 min (on-line)	E. Syresin (JINR, Dubna)	NICA Ion Collider at JINR	MOY02
13:00-13:30 30 min	T. Kulevoy (NRC KI - ITEP/MEPhI, Moscow)	Linear Ion Accelerators for Physics and Industry	MOY03
13:30-14:00	Photo		
14:00-15:00	Lunch		
15:00-16:20	Session 2.2. Modern accelerator projects in Russia (Continued) <i>Chairman E. Levichev Secretary</i>		
15:00-15:30 30 min	A. Bogomyagkov (BINP SB RAS, Novosibirsk)	Status of the Novosibirsk Fourth-Generation Light Source SKIF	MOY04
15:30-16:00 30 min	D. Starostenko (BINP SB RAS, Novosibirsk)	Linear Induction Accelerator LIA-2 Upgrade	MOY05
16:00-16:20 20 min	A. Bogomyagkov (BINP SB RAS, Novosibirsk)	Beam dynamics challenge in Novosibirsk Super C-Tau Factory	MOA01
16:20-17:00	Session 3. Cyclic and linear accelerators under operation <i>Chairman E. Levichev Secretary</i>		
16:20-16:40 20 min	V. Kalinin (NRC KI - IHEP, Protvino)	Status of U-70	MOB01
16:40-17:00 20 min	V. Kobets (JINR, Dubna)	Linear electron accelerator LINAC-200, status of work and prospects	MOB02
17:00-19:00	Poster session A (+ Coffee-break)		
19:00-20:00	Dinner		

September 28, 2021, Tuesday			
9:30-10:00	Session 4. Heavy ion accelerators <i>Chairman Yu. Senichev</i> <i>Secretary</i>		
9:30-10:00 30 min (on-line)	Lijun Mao (IMP/CAS, Lanzhou, China)	Status of the HIAF Accelerator Facility in China	TUX01
10:00-11:10	Session 5.1. Colliders <i>Chairman Yu. Senichev</i> <i>Secretary</i>		
10:00-10:30 30 min	M. Timoshenko (BINP SB RAS, Novosibirsk)	VEPP-2000 collider operation in 2019-2021 runs: challenges and results	TUY01
10:30-10:50 20 min	P. Piminov (BINP SB RAS, Novosibirsk)	VEPP-4M Electron Positron Collider Operation at High Energy	TUA01
10:50-11:10 20 min	Yu. Maltseva (BINP SB RAS, Novosibirsk)	Status of VEPP-5 Injection Complex	TUA02
11:10-11:30	Coffee-break		
11:30-11:50	Session 5.2. Colliders (Continued) <i>Chairman D. Ovsyannikov</i> <i>Secretary</i>		
11:30-11:50 20 min	V. Telnov (BINP SB RAS, Novosibirsk)	LHC, ILC and ERLC: a High-Luminosity Superconducting Twin e+e- Linear Collider With Energy Recovery and Multiple Use of Beams	TUA03
11:50-13:50	Session 6. Beam dynamics in cyclic accelerators and storage rings, cooling methods, new acceleration methods <i>Chairman D. Ovsyannikov</i> <i>Secretary</i>		
11:50-12:10 20 min (on-line)	S. Kostromin (JINR, Dubna)	Ion Beam dynamics in NICA collider	TUB01
12:10-12:30 20 min	M. Shandov (JINR, Dubna)	Beam Correction System of the NICA Collider	TUB02
12:30-12:50 20 min	Yu. Senichev (INR RAS, Moscow)	Methods and Systematic Errors for Searching for the Electric Dipole Moment of Charged Particle Using a Storage Ring	TUB03
12:50-13:10 20 min	M. Bryzgunov (BINP SB RAS, Novosibirsk)	Development of the Electron Cooling System for NICA Collider	TUB04
13:10-13:30 20 min	I. Gorelyshev (JINR, Dubna)	Stochastic Cooling System of the NICA Collider: Designing and Modeling	TUB06
13:30-13:50 20 min	S. Polozov (MEPhI, Moscow)	The Conceptual Design of the 7.5 MeV/u Light Ion Injector	TUB07
13:50-15:30	Lunch		
15:30-16:30	Session 7. Synchrotron radiation sources and free electron lasers <i>Chairman V. Telnov</i> <i>Secretary</i>		
15:30-15:50 20 min	A. Valentinov (NRC KI, Moscow)	Status of the Kurchatov Synchrotron Radiation Source	TUC01
15:50-16:10 20 min	V. Korchuganov (NRC KI, Moscow)	Concept of a New Kurchatov Synchrotron Radiation Source	TUC02
16:10-16:30 20 min	N. Peskov (IAP RAS, Nizhny Novgorod)	Development of Powerful Long-Pulse THz-Band FEL Driven by Linear Induction Accelerator	TUC03
16:30-19:00	Poster session B (+ Coffee-break)		
19:00-20:00	Dinner		
20:00-21:00	Special session 2. (Small hall) <i>Chairman I. Meshkov</i> <i>Secretary</i>		
20:00-20:30 30 min	S. Polozov (MEPhI, Moscow)	Accelerator Physics and Education: MEPhI Experience and Problems	TUZ01
20:30-21:00 30 min	Discussion		

September 29, 2021, Wednesday			
<p align="center">Session 8. Linear accelerators and beam transfer lines <i>Chairman S. Polozov Secretary</i></p>			
9:30-10:30			
9:30-9:50 20 min	A. Tuzikov (JINR, Dubna)	Beam Transfer Systems of NICA Facility	WEA01
9:50-10:10 20 min	K. Levterov (JINR, Dubna)	Acceleration of Carbon and Helium Beams by the Heavy Ion Linear Accelerator for Its Commissioning and First Run of Booster Synchrotron of the NICA Accelerating Facility	WEA02
10:10-10:30 20 min	M. Arsenyeva (BINP SB RAS, Novosibirsk)	200 MeV linac development for the SKIF light source injector	WEA03
<p align="center">Session 9.1. Superconducting magnets and cryogenics <i>Chairman S. Polozov Secretary</i></p>			
10:30-10:50 20 min	D. Nikiforov (JINR, Dubna)	SC Magnets for Project of NICA	WEB01
10:50-11:10 20 min	A. Shemchuk (JINR, Dubna)	Magnetic Field Measurements for the NICA Collider Magnets and FAIR Quadrupole Units	WEB02
<p align="center">Coffee-break</p>			
<p align="center">Session 9.2. Superconducting magnets and cryogenics (Continued) <i>Chairman V. Paramonov Secretary</i></p>			
11:30-12:10			
11:30-11:50 20 min	E. Fischer (JINR, Dubna)	First Experience of Production and Testing the Superconducting Quadrupole and Corrector Magnets for the SIS100 Heavy Ion Accelerator of FAIR	WEB03
11:50-12:10 20 min	N. Topilin (JINR, Dubna)	MPD Yoke assembly	WEB04
<p align="center">Session 10. Magnetic and vacuum systems, power supplies and RF systems <i>Chairman V. Paramonov Secretary</i></p>			
12:10-12:30 20 min (on-line)	V. Karpinskii (JINR, Dubna)	Features of Power Supply Systems for Superconducting Structural Magnets of NICA Accelerators	WEC01
12:30-12:50 20 min (on-line)	A. Galimov (JINR, Dubna)	Features of Reaching the Operating Vacuum in the Accelerators of the NICA Project	WEC02
<p align="center">Session 11.1. Control and Particle Beam diagnostic systems <i>Chairman V. Paramonov Secretary</i></p>			
12:50-13:50			
12:50-13:10 20 min	O. Meshkov (BINP SB RAS, Novosibirsk)	Beam Diagnostics for the SKIF Synchrotron Light Source	WED01
13:10-13:30 20 min	V. Dorokhov (BINP SB RAS, Novosibirsk)	Measurement of the SKIF transverse beam size with sub-micron resolution based on optical beam diagnostics experience at Kurchatov SLS	WED02
13:30-13:50 20 min	I. Morozov (BINP SB RAS, Novosibirsk)	Precise analysis of beam optics in VEPP-4M by turn-by-turn betatron phase advance measurement	WED04
<p align="center">Lunch</p>			
<p align="center">Session 11.2. Control and diagnostic systems (Continued) <i>Chairman L. Kravchuk Secretary</i></p>			
15:30-16:30			
15:30-15:50 20 min	A. Baldin (JINR, Dubna)	Nondestructive Diagnostics of Accelerated Ion Beams With MCP-Based Detectors at the Accelerator Complex NICA. Experimental Results and Prospects	WED05
15:50-16:10 20 min	Elvis Janezic (I-Tech, Solkan, Slovenia)	Beam Position Monitoring Challenges and Techniques for Recent and Future Lightsources	WED06
16:10-16:30 20 min	D. Garaev (MEPhI, Moscow)	Smith-Purcell radiation in prewave zone for diagnostics of relativistic electron beams	WED07

16:30-19:00	Poster session C (+Coffee-break)		
19:00-20:00	Dinner		
20:00-21:00	Special session 3.		
	<i>Chairman B. Gikal</i>		<i>Secretary</i>
20:00-20:30 30 min	D. Kamanin (JINR, Dubna)	<i>JINR – 65th Anniversary</i>	
20:30-21:00 30 min	Questions and answers		

September 30, 2021, Thursday			
9:30-9:50	Session 12. Superconducting accelerators and cryogenics		
	<i>Chairman E. Fischer</i>		<i>Secretary</i>
9:30-9:50 20 min	M. Gusarova (MEPhI, Moscow)	Status of the SC HWR Cavities Production for NICA Project	THA01
9:50-10:10	Session 13. Control and synchronization systems		
	<i>Chairman E. Fischer</i>		<i>Secretary</i>
9:50-10:10 20 min	Dejan Tinta (I-Tech, Solkan, Slovenia)	Precise Generation and Distribution System of RF Reference Signal for SKIF Accelerator Complex	THB01
10:10-11:10	Special memorial session		
	<i>Chairman I. Meshkov</i>		<i>Secretary</i>
10:10-10:50 40 min	E. Donets (JINR, Dubna)	E.D. Donets: 50 years with EBIS/ESIS	
10:50-11:10 20 min	Short remembering (Free talks)		
11:10-11:30	Coffee-break		
11:30-12:30	Session 14.A Ion sources and electron guns		
	<i>Chairman V. Korchuganov</i>		<i>Secretary</i>
11:30-11:50 20 min	V. Kurakin (LPI, Moscow)	Beam Formation from Radionuclide Positron Source by the Charged Particles Beams Stochastic Optics Method	THC01
11:50-12:10 20 min	V. Skalyga (IAP RAS, Nizhny Novgorod)	A High Current Pure Proton Beam Source Prototype	THC02
12:10-12:30 20 min	S. Polozov (MEPhI, Moscow)	Numerical Simulations of Space Charge Dominated Beam Dynamics in Experimentally Optimized PITZ RF Photogun	THC03
12:30-13:30	Lunch		
14:00-19:00	Excursion		
19:00-22:30	Banquet		

October 01, 2021, Friday			
9:30-11:10	Session 15. Cyclotrons for basic and applied research <i>Chairman Yu. Gavrish Secretary</i>		
9:30-9:50 20 min	K. Gikal (JINR, Dubna)	Peculiarities of Producing 48Ca, 48Ti, 52Cr Beams at the DC-280 Cyclotron	FRA01
9:50-10:10 20 min	Yu. Osina (NIIIEFA, St. Petersburg)	Cyclotron of Multi-Charge Ions	FRA02
10:10-10:30 20 min	I. Rodin (NIIIEFA, St. Petersburg)	Simulation and Design of the Permanent Magnet Multipole for DC140	FRA03
10:30-10:50 20 min	V. Semin (JINR, Dubna)	The Experimental Research of Cyclotron DC-280 Beam Parameters	FRA04
10:50-11:10 20 min	K. Smirnov (NIIIEFA, St. Petersburg)	Cyclotron System C-250	FRA05
11:10-11:30	Coffee-break		
11:30-13:50	Session 16. Accelerators for technical and medicine applications <i>Chairman G. Shirkov Secretary</i>		
11:30-11:50 20 min	S. Taskaev (BINP SB RAS, Novosibirsk)	Advances in the development of a Vacuum Insulated Tandem Accelerator and its applications	FRB01
11:50-12:10 20 min	D. Vorobev (BINP SB RAS, Novosibirsk)	Accelerators of ELV Series: Current Status and Further Development	FRB02
12:10-12:30 20 min	E. Domarov (BINP SB RAS, Novosibirsk)	Upgraded the Extraction Device of Focused Electron Beam Into the Atmosphere	FRB03
12:30-12:50 20 min	V. Paramonov (INR RAS, Moscow)	A linear accelerator for proton therapy	FRB04
12:50-13:10 20 min	A. Pryanichnikov (PhTC LPI RAS, Protvino)	Updated Status of Protom synchrotrons for Proton Therapy	FRB05
13:10-13:30 20 min	V. Pikalov (NRC KI - IHEP, Protvino)	The Results Obtained on "Radiobiological Stand" Facility, Working With the Extracted Carbon Ion Beam of the U-70 Accelerator	FRB06
13:30-13:50 20 min	Zoran Jovanovic (VINCA, Belgrade, Serbia)	Transmission Studies With Ion Beams Within FAMA	FRB07
13:50-14:10	Session 17. Radiation problems at accelerators <i>Chairman G. Shirkov Secretary</i>		
13:50-14:10 20 min	O. Sumaneev (NRC KI - IHEP, Protvino)	Neutron Field Measurements by GFPC Based Monitors at the Carbon Beam of IHEP U-70 Proton Synchrotron.	FRC01
14:10-15:30	Lunch		
15:30-16:10	Final session. <i>Chairman B. Sharkov Secretary</i>		
15:30-16:10 40 min	M. Itkis (JINR, Dubna)	2021- The Year of Science and Technology in Russia	
16:10-17:00 50 min	Closing session <i>I. Meshkov, B. Sharkov</i>		
17:00-19:00	Free time		
19:00-20:00	Dinner		

Poster session "A" (Monday, September 27, 2021)

Session 3. "Cyclic and linear accelerators under operation"

№	Last_Name	Affiliation	Title	Paper ID
1.	B. Golovenskiy	JINR, Dubna	The New Light-Ion Linac for the NICA Injection Complex	MOPSA01
2.	L. Polyakov	RFNC-VNIIEF, Sarov	Experimental Tests of CW Resonance Accelerator With 7.5 MeV High Intensity Electron Beam	MOPSA02
3.	M. Guzov	MEPhI, Moscow; RFNC-VNIIEF, Sarov	The Beam Dynamics and Electrodynamics Characteristics of 800 keV/nucleon RFQ	MOPSA03
4.	T. Kulevoy	NRC KI - ITEP, Moscow	The Tuning of RF Parameters of 40 MHz RFQ	MOPSA04
5.			Beam Dynamics in ITEP Heavy Ion Linac	MOPSA05
6.	I. Rybakov	INR RAS, Moscow	Parameters of the Normal Conducting Accelerating Structure for the Up to 1 GeV Hadron Linacs	MOPSA06
7.	S. Polozov	MEPhI, Moscow; NRC, Moscow	200 MeV Linear Electron Accelerator - Pre-Injector for a New Kurchatov Synchrotron Radiation Source	MOPSA07
8.			Beam Dynamics Simulation in a Linear Electron Accelerator - Injector for the 4th Generation Specialized Synchrotron Radiation Source Ussr	MOPSA08
9.	T. Lozeeva	MEPhI, Moscow	Multi-charge Uranium Beam Dynamics in LINAC-100 Driver-Accelerator	MOPSA09
10.	A. Samoshin	MEPhI, Moscow	Real Field Uranium Beam Dynamics in LINAC100	MOPSA10
11.	V. Dyubkov	INR RAS, Moscow; MEPhI, Moscow	Room Temperature Folding Segment for a Transfer of Multiple Charge States Uranium Ions Between Sections of Linac-100	MOPSA11
12.	K. Mikhailov	JINR, Dubna	LUE-200 SLED system	MOPSA12

Session 9. "Superconducting magnets and cryogenics"

№	Last_Name	Affiliation	Title	Paper ID
13.	Yu. Altukhov	NRC KI - IHEP, Protvino	Computer Simulation of the Mechanical Behavior of the FFS Superconducting Quadrupole Coil	MOPSA13
14.	S. Korovkin	JINR, Dubna	Production of Superconducting Magnets for the NICA Collider at JINR	MOPSA14
15.	A. Bortsova	JINR, Dubna	Thermodynamic Characteristics of the Superconducting Quadrupole Magnets of the NICA Booster Synchrotron	MOPSA15
16.	D. Bychanok	INP BSU, Minsk, Belarus	Design and Characteristics of Cryostat for Testing of Low-Beta 325 MHz Half-Wave Resonators	MOPSA16

Session 13. "Control and synchronization systems"

№	Last_Name	Affiliation	Title	Paper ID
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17.	A. Sergeev	JINR, Dubna	Automated System for Heating High-Vacuum Elements of Superconducting Synchrotrons of the NICA Complex	MOPSA17
18.	R. Pivin	JINR, Dubna	Booster vacuum control system, NICA project	MOPSA18
19.			Collider NICA: Project of vacuum control system	MOPSA19
20.	V. Lutsenko	JINR, Dubna	Automated Radiation Monitoring System (ARMS) and Locking and Alarm System (LAS) of the NICA complex	MOPSA20
21.	A. Trifonov	JINR, Dubna	The Control System of the Linac-200 Electron Accelerator at JINR	MOPSA21
22.	I. Shirikov	JINR, Dubna	NICA Synchronization System	MOPSA22
23.	Ye. Fomin	NRC KI, Moscow	Machine Learning for the Storage Ring Optimization	MOPSA23
24.	E. Kaportsev	NRC KI, Moscow	KSRS Pulsed Synchronization System	MOPSA24
25.	N. Moseiko	NRC KI, Moscow	Control modules magnetic system sources as a part of new automated control system ACS TP and STP of the Kurchatov synchrotron radiation source	MOPSA25
26.			New Control Units BUP-27M for Power Supplies of Vacuum System of Synchrotron Radiation Source NRC "Kurchatov Institute"	MOPSA26

Session 16. "Accelerators for technical and medicine applications"

№	Last Name	Affiliation	Title	Paper ID
27.	N. Moseiko	NRC KI, Moscow	New Automated Control Systems and Synchronization of Technological Processes (ACS TP and STP) of the Kurchatov Synchrotron Radiation Source	MOPSA27
28.	S. Mitrofanov	JINR, Dubna	DC140 Project: New Dedicated Facility for Applied Science at FLNR Accelerator Complex	MOPSA28
29.	A. Slivin	JINR, Dubna	Applied research stations and new beam transfer lines at the NICA accelerator complex	MOPSA29
30.	E. Levterova	JINR, Dubna	TFBC detectors application for the study of the energy spectrum of neutrons produced by interaction of uranium target with the 1 ÷ 8 GeV incident beams of deuterons	MOPSA30
31.	B. Frolov	NRC KI - IHEP, Protvino	Brightness Increase of a Carbon Ion Beam in Accelerator I-100 Injection System	MOPSA31
32.	A. Tikhomirov	JINR, Dubna	Sub Channel SOCHI of the NICA Accelerator Complex. Design Overview and Rigging at the NICA Accelerator Complex. Details of the Vacuum System	MOPSA32
33.	O. Karamyshev	JINR, Dubna	Superconducting Cyclotron SC230 for Flash Proton Therapy Studies	MOPSA33
34.	V. Vorontsov	MEPhI, Moscow	Multipurpose Cyclotron for the Medical and Pharmaceutical Purposes	MOPSA34
35.	S. Stuchebrov	TPU, Tomsk	Concept of Scanning Detector for Measurement of Ejected Medical Hadron Beam Profile	MOPSA35

36.			Formation of Ejected High-Energy Therapeutic Electron Beam With 3D Printed Test Samples	MOPSA36
37.	A. Bulavskaya	TPU, Tomsk	Determination of Minimal Acceptable Sizes of Collimation Hole in Plastic Sample Forming Ejected Therapeutic High-Energy Electron Beam	MOPSA37
38.	I. Miloichikova	TPU, Tomsk; Cancer Research Institute of Tomsk NRMC, Tomsk	Geant4 Based Numerical Model of Accelerator for Simulation of High Energy Therapeutic Electron Beam Parameters	MOPSA38
39.	A. Shemyakov	PhTC LPI RAS, Protein	Application of a Scintillation Detector for Periodic Monitoring of Beam Parameters at Medical Proton Therapy Complex "Prometheus"	MOPSA39
40.	A. Pryanichnikov	MSU, Moscow; PhTC LPI RAS, Protvino	The PIPLAN Proton-Carbon Ion Radiation Therapy Planning System	MOPSA40
41.	V. Paramonov	INR RAS, Moscow	Effect of a Proton Beam from a Linear Accelerator for Radiation Therapy	MOPSA41
42.	M. Lalayan	MEPhI, Moscow	Compact S-band accelerating structure for medical applications	MOPSA42
43.	D. Pavlov	NRNU MEPhI, Moscow	Linear Accelerator for Radiotherapy	MOPSA43
44.	V. Tonkikh	NRC KI - PNPI, Gatchina	Conceptual project of proton beam lines in the nuclear medicine project of the "Kurchatov Institute" - PNPI	MOPSA44
45.	M. Belikhin	MSU, Moscow	Experimental simulation of volume repainting technique at proton synchrotron in context of spot scanning proton therapy	MOPSA45
46.	A. Chernykh	NRC, Moscow	Preliminary Design Study of the Gantry for the Proton Radiotherapy Center NRC "Kurchatov Institute"	MOPSA46
47.	Ia. Kolesnikov	BINP SB RAS & NSU, Novosibirsk	Verification of a beam of epithermal neutrons for boron-neutron capture therapy	MOPSA47

Session 15. "Cyclotrons for basic and applied research"

№	Last_Name	Affiliation	Title	Paper ID
48.	A. Zabanov	JINR, Dubna	Simulation of the Electrostatic Deflector of DC140 Cyclotron	MOPSA48
49.	I. Ivanenko	JINR, Dubna	DC140 Cyclotron, Trajectory Analysis of Beam Acceleration and Extraction	MOPSA49
50.	N. Kazarinov	JINR, Dubna	Axial Injection System of DC140 Cyclotron of FLNR JINR	MOPSA50
51.	V. Lisov	JINR, Dubna	The Extraction System of DC140 Cyclotron	MOPSA51
52.	Yu. Osina	NIIEFA, St. Petersburg	Modeling of the Multi-Charged Ion Cyclotron Magnetic System	MOPSA52
53.	S. Artamonov	NRC KI - PNPI, Gatchina	Focusing Properties of the Magnetic Structure of Isochronous Cyclotrons With High Spiraling Angle of Pole Tips	MOPSA53

Session 17. "Radiation problems at accelerators"

№	Last_Name	Affiliation	Title	Paper ID
54.	R. Truntseva	RFNC-VNIIEF, Sarov, Nizhniy Novgorod region	Calculation of Dose Fields and Energy Spectra of Secondary Radiation in the Extraction Zone of a Synchrotron Accelerator for Protons With Energies Up to 700 MeV	MOPSA54
55.	A. Riabchikova	NRC KI - IHEP, Protvino	Machine-Induced Background Simulations for the CMS Experiment at the LHC	MOPSA55

Session 18. "Electrostatic accelerators"

№	Last_Name	Affiliation	Title	Paper ID
56.	I. Sorokin	BINP SB RAS, Novosibirsk	Upgrades of a Vacuum Insulated Tandem Accelerator for Obtaining Required Voltage Without Breakdowns	MOPSA56

Poster session "B" (Tuesday, September 28, 2021)

Session 6. "Beam dynamics in cyclic accelerators and storage rings, cooling methods, new acceleration methods"

№	Last_Name	Affiliation	Title	Paper ID
1.	A. Sledneva	JINR, Dubna	The Technique of Beam Injection and Circulation Tuning in the Booster of the NICA Accelerator Complex	TUPSB01
2.	K. Osipov	JINR, Dubna	Design and Optimization of the NICA Longitudinal Stochastic Cooling Pickup/Kicker	TUPSB02
3.	S. Semenov	JINR, Dubna	Commissioning of Electron Cooling System of the NICA Booster Synchrotron	TUPSB03
4.	S. Melnikov	JINR, Dubna	Some specifics of Electron Cooling System for the NICA Booster	TUPSB04
5.			Impedance budget of the NICA collider ring	TUPSB05
6.	A. Philippov	JINR, Dubna	Optimization of the Magnet Elements Arrangement in the NICA Collider	TUPSB06
7.	O. Kozlov	JINR, Dubna	Particle Collimation in the NICA Collider	TUPSB07
8.	S. Kolokolchikov	INR RAS, Moscow	Magneto-Optical Structure of the NICA Collider With High Critical Energy	TUPSB08
9.	M. Blinov	BINP SB RAS, Novosibirsk	Resonan Slow Extraction From Ion Synchrotron for Technological Application	TUPSB09
10.	A. Aksentyev	INR RAS, Moscow; MEPhI, Moscow	Modeling of the Spin-Navigator Method for Manipulating the Beam Polarization in a Spin-Transparent Storage Ring	TUPSB10
11.			Numerical Investigation of the Robustness of Spin-Navigator Polarization Control Method in a Spin-Transparent Storage Ring	TUPSB11
12.	A. Boriskov	RFNC-VNIIEF, Sarov, Nizhniy Novgorod region	Development of a Program Code for Calculation of Charged Particle Dynamics in RFQ	TUPSB12
13.	E. Kotina	SPbSU, St. Petersburg	Charged Particle Dynamics Optimization in Discrete Systems	TUPSB13
14.	D. Ovsyannikov	SPbSU, St. Petersburg	On a New Approach to the Beam Dynamics Optimization	TUPSB14
15.	S. Andrianov	SPbSU, St. Petersburg	Some Features of Constructing Symplectic Maps for Cyclic Accelerator	TUPSB15
16.	D. Amerkanov	NRC KI - PNPI, Gatchina	Calculation and Optimization of Proton Beam Transfer Lines by the Monte Carlo Method	TUPSB16
17.	A. Chikhachev	Allrussian Electrotechnical Institute, Moscow	Investigations of Charge Particle Dynamics in Space Charge Fields	TUPSB17
18.	S. Kuznetsov	JIHT RAS, Moscow	Generation of Accelerated Electron Beams During Interaction of Laser Pulse With Plasma	TUPSB18
19.	V. Vorontsov	MEPhI, Moscow	About a Possibility of Acceleration of Ferromagnetic Objects by the Electron Rings	TUPSB19

Session 7 "Synchrotron radiation sources and free electron lasers"

№	Last_Name	Affiliation	Title	Paper ID
20.	A. Altmark	LETI, Saint-Petersburg	Selection of a System for Correcting the Energy Spread of Relativistic Electron Bunches for a Free Electron Laser	TUPSB20
21.			System for Correcting the Longitudinal Length of Electron Bunches for Generation a Free Electron Laser	TUPSB21
22.	I. Sheinman	LETI, Saint-Petersburg	Wakefield Undulator Based on a Sinusoidal Dielectric Waveguide	TUPSB22
23.	A. Tishchenko	MEPhI, Moscow; NRC, Moscow; BNRU, Belgorod	Laser Undulator as a Compact X-Ray Source: State of the Art and New Trends	TUPSB23
24.	O. Meshkov	BINP SB RAS, Novosibirsk	Measurements of Undulator and Laser Radiation Parameters of the Novosibirsk FEL Facility	TUPSB24
25.	V. Dyubkov	MEPhI, Moscow	Storage Ring Design and Beam Instabilities Investigation for MEPhI's Photon Source	TUPSB25
26.			Lattice Options With Reverse Bending Magnets for USSR HMBA Storage Ring	TUPSB26
27.	V. Rashchikov	MEPhI, Moscow	Beam Instabilities Evaluation in the Designed USSR Fourth-Generation Synchrotron Radiation Source	TUPSB27
28.	D. Sergeeva	MEPhI, Moscow; BelSU/LRP, Belgorod; NRC, Moscow	X-ray Thomson Inverse Scattering from Periodically Modulated Laser Pulses	TUPSB28
29.	A. Savchenko	MEPhI, Moscow; BNRU, Belgorod; NRC, Moscow	Geant4 for Inverse Compton Radiation Source Simulations	TUPSB29
30.	O. Ivashchuk	BelSU, Belgorod	X-Ray Source Based on Piezoelectric Lighter	TUPSB30
31.			Three-Electrode Pulse Pyroelectric Source of X-Ray Radiation	TUPSB31
32.	A. Yanovich	NRC KI - IHEP, Protvino	Emission of Photons at the Interaction of a High-Energy Positron Beam With a Periodically Deformed Crystal	TUPSB32
33.	A. Smygacheva	NRC KI, Moscow	2.5 GeV Booster synchrotron for a new Kurchatov Synchrotron Radiation Source	TUPSB33
34.	Ye. Fomin	NRC KI, Moscow	New Lattice Design for Kurchatov Synchrotron Radiation Source	TUPSB34

Session 14.A. "Ion sources and electron guns"

№	Last_Name	Affiliation	Title	Paper ID
35.	V. Amoskov	NIIEFA, St. Petersburg	3D Simulation Study and Optimization of Magnetic System of DECRIS-28	TUPSB35

36.	D. Pugachev	JINR, Dubna	High Intensity Calcium, Chromium and Titanium Ion Beams from the Permanent Magnet ECR Ion Source DECRIS-PM	TUPSB36
37.	A. Bondarchenko	JINR, Dubna	Modernization of the ECR Ion Source DECRIS-2M. Results of the First Tests.	TUPSB37
38.	M. Dmitriyev	MEPhI, Moscow	Magnetic System With Variable Characteristics for a 2.45 GHz ECRIS	TUPSB38
39.	A. Belov	INR RAS, Moscow	Study of Space Charge Compensation of a 400 keV Pulsed Hydrogen Ion Beam	TUPSB39
40.	B. Golovenskiy	JINR, Dubna	Design New He ⁺ Source for the NICA Injection Complex	TUPSB40
41.	D. Rassadov	JINR, Dubna	Production of Kr, Xe, Bi Ions at the "Krypton-6T" Ion Source	TUPSB41
42.	A. Shikanov	MEPhI, Moscow	Investigation of a Laser Ion Source with Magnetic Contraction of a Plasma Flow	TUPSB42
43.	S. Polozov	MEPhI, Moscow; NRC, Moscow	Optimization of the RF-Gun With Photocathode at Operating Frequency 2800 MHz for the New Injection Linac for SSRS-4 Project	TUPSB43
44.	Ya. Samofalova	JINR, Dubna	Design and Simulation of an S-Band RF Photogun for a New Accelerator Injector Linac-200 at JINR	TUPSB44
45.	M. Arsenyeva	BINP SB RAS, Novosibirsk	Analysis of the Beam Formation in the Photogun With Small Couplers Between Cavities	TUPSB45
46.	A. Oleinik	BelSU, Belgorod	Quasi-continuous X-ray and Electron Generation in LiTaO ₃ -based Pyroelectric Accelerator Driven by Periodically Varying Temperature	TUPSB46
47.	A. Ovsyannikov	SPbSU, St. Petersburg	Stability Conditions for a Penning Trap with Rotating Quadrupole or Dipole Electric Fields	TUPSB47
48.	T. Kulevoy	NRC KI - ITEP, Moscow	ОПТИМИЗАЦИЯ ГЕОМЕТРИЧЕСКИХ ХАРАКТЕРИСТИК ЛАЗЕРНОГО ПУЧКА В ЛАЗЕРНОМ ИСТОЧНИКЕ ИОНОВ ИТЭФ	TUPSB48
49.			Compact Ion Source for 3He ²⁺ Beam	TUPSB49

Session 14.B. "Accelerator based Neutron Sources"

№	Last Name	Affiliation	Title	Paper ID
50.	T. Kulevoy	NRC KI - ITEP, Moscow	The High Intensity Pulse Proton Linac for the Compact Neutron Source	TUPSB50
51.	O. Sumaneev	NRC KI - IHEP, Protvino	Measurement of Neutron Field Functionals Around a Neutron Converter of 50 GeV Protons	TUPSB51
52.	Ia. Kolesnikov	BINP SB RAS, Novosibirsk	Measurement of the Argon Ion Current Accompanying the Proton Beam at the Accelerating Source of Epithermal Neutrons	TUPSB52
53.	S. Taskaev	BINP SB RAS, Novosibirsk	Measurement of Parameters of Neutron Radiation on the Accelerator-Based Epithermal Neutron Source	TUPSB53

Poster session "C" (Wednesday, September 29, 2021)

Session 8. "Linear accelerators and beam transfer lines"

№	Last_Name	Affiliation	Title	Paper ID
1.	V. Paramonov	INR RAS, Moscow	Unit for matching the waveguide with the accelerating structure	WEPSC01
2.	M. Gusarova	MEPhI, Moscow	Development of short 5-gap 80 MHz IH structures	WEPSC02
3.			Multipactor discharge in short 5-gap 80 MHz IH structures	WEPSC02
4.	A. Shein	RFNC-VNIIEF, Sarov	Accelerating Structure of 8 MeV Electron Linac	WEPSC04
5.	K. Yunenko	JINR, Dubna	Modeling of the Energy Compression System SLED for the LINAC-200 Accelerator	WEPSC05
6.	I. Burkov	JINR, Dubna	Access Input Data Uncertainties in Thermal-Mechanical Calculations of the Outlet Window Membrane of the LUE-200 Accelerator	WEPSC06
7.	V. Dyubkov	INR RAS, Moscow; MEPhI, Moscow	Medium Energy Ions Transport Channel for a Pulsed Linear Accelerator	WEPSC07

Session 10 "Magnetic and vacuum systems, power supplies and RF systems"

№	Last_Name	Affiliation	Title	Paper ID
8.	V. Dyubkov	MEPhI, Moscow	Vacuum Condition Simulations for Vacuum Chambers of Synchrotron Radiation Source	WEPSC08
9.	E. Kaportsev	NRC KI, Moscow	Automation of Control of Titanium Evaporators of Vacuum Pumps of the Kurchatov Synchrotron Radiation Source	WEPSC09
10.	S. Polozov	MEPhI, Moscow	Optimization of Accelerators Vacuum Structures Pumping	WEPSC10
11.	Yu. Lozeev	MEPhI, Moscow	Optimization of the RFQ Electrode Construction for Multipactor Discharge Prevention	WEPSC11
12.	S. Matsievskiy	MEPhI, Moscow	Power Coupler for USSR Storage Ring Accelerating Cavity	WEPSC12
13.	M. Lalayan	MEPhI, Moscow	Accelerating Cavities with HOM Damping for SYLA Storage Ring	WEPSC13
14.	A. Grebentsov	JINR, Dubna	Booster RF System First Beam Tests	WEPSC14
15.	A. Malyshev	BINP SB RAS, Novosibirsk	Barrier Station RF1 of the NICA Collider. Design Features and Influence on Beam Dynamics	WEPSC15
16.	N. Kazachenko	NIIEFA, St. Petersburg	Numerical research of design solutions for the bending magnets of the electron beam facility GESA-1M	WEPSC16
17.	T. Parfylo	JINR, Dubna	Vibrating Wire System for Fiducialization NICA Booster Superconducting Quadrupole Magnets	WEPSC17
18.	D. Zolotykh	JINR, Dubna	Serial Magnetic Measurements of the NICA Collider Twin-Aperture Dipoles. The Main Results	WEPSC18

19.	E. Shevchenko	JINR, Dubna	The Design Solutions for Supplying a Cryogenic and Design Option for Powering the Collider Ring With Electric Current	WEPSC19
20.	A. Smygacheva	NRC KI, Moscow	Magnets Design for 2.5 GeV Booster Synchrotron	WEPSC20
21.	I. Yurin	MEPhI,	Light Ion Accelerator Magnets	WEPSC21
22.	A. Starostenko	BINP SB RAS, Novosibirsk	The Status of Dipole Magnets of the FAIR Collector Ring	WEPSC22
23.	E. Antokhin	BINP SB RAS, Novosibirsk	HESR-PANDA Dipole Magnet	WEPSC23
24.	K. Riabchenko	BINP SB RAS, Novosibirsk	Development of Dipole Magnets for the SKIF Storage Ring	WEPSC24
25.	D. Donets	JINR, Dubna	Power Supply for Magnetic Elements of the Beam Transportation Channels of the NICA Complex	WEPSC25
26.	A. Shurygin	JINR, Dubna	Booster Power Supply System.	WEPSC26
27.	A. Kozlov	JINR, Dubna	Magnetic Kicker for the Beam Extraction From the Nuclotron of the NICA Accelerator Complex	WEPSC27

Session 11. "Control and Particle Beam diagnostic systems"

№	Last Name	Affiliation	Title	Paper ID
28.	S. Taskaev	BINP SB RAS, Novosibirsk	Optical Diagnostics of 1 MeV Proton Beam in Argon Stripping Target of a Tandem Accelerator	WEPSC28
29.			Diagnostics of the Proton Beam Position Using the Luminescence of a Lithium Neutron-Generating Target	WEPSC29
30.	Ia. Kolesnikov	BINP SB RAS & NSU, Novosibirsk	Measurement of the Phase Portrait of a 2 MeV Proton Beam	WEPSC30
31.			2D-Tomography of the Proton Beam in the Vacuum Insulated Tandem Accelerator	WEPSC31
32.			Proton Beam Size Diagnostics Used for in the Vacuum Insulated Tandem Accelerator	WEPSC32
33.			Increasing Quality of Experiment Interpretation in Real-Time for the Tandem Accelerator	WEPSC33
34.	D. Vasiliev	NRC KI - IHEP, Protvino	Treatment of the Results Measurement of Profile Beam Using Wire Scanners at Accelerator U-70 IHEP	WEPSC34
35.	D. Shkitov	TPU, Tomsk	Short Review of Experimental Studies of Diffraction Radiation	WEPSC35
36.	M. Toktaganova	TPU, Tomsk	Simulation of the Coherent Radiation Interferometry for the Beam Temporal Structure Diagnostics	WEPSC36
37.	M. Shevelev	TPU, Tomsk	Design of Cherenkov Radiation Target for Nondestructive Beam Diagnostics	WEPSC37
38.	A. Bulavskaya	TPU, Tomsk	Determination of Optimal Number of Beam Projections for Scanning Beam Profile Detector Development	WEPSC38

39.	V. Kalinin	NRC KI - IHEP, Protvino	Data Collection, Archiving and Monitoring System for U70 Synchrotron	WEPSC39
40.	I. Morozov	BINP SB RAS, Novosibirsk	Detection of Anomaly BPM Signals at VEPP-4M	WEPSC40
41.	E. Butenko	JINR, Dubna	Problems of Measuring the Beam Emittance on the ESIS KRION-6T and Analysis of Possible Solutions	WEPSC41
42.	K. Gubin	Institute of Laser Physics, SB RAS, Novosibirsk	RF Cavity Based Charge Detector for a Low Charge Ultra Short Single Electron Bunch Measurement	WEPSC42
43.	P. Piminov	BINP SB RAS, Novosibirsk	The Betatron Oscillation Measurement System at the VEPP-3	WEPSC43
44.	Yu. Maltseva	BINP SB RAS, NSU, Novosibirsk	Beam Loss Diagnostics System for SKIF Synchrotron Light Source	WEPSC44
45.	A. Drozdovsky	NRC KI - ITEP, Moscow	Measurement of the Electron Beam Spectrum by the Absorbing Filters Method During a Single Pulse	WEPSC45
46.	S. Arutunian	ANSL, Yerevan	Vibrating Wire as a Miniature Scanner for Thin Beams Profiling in Accelerators	WEPSC46
47.	L. Myshelovka	BelSU, Belgorod	Controlling of 10 keV Electron Beam Using Dielectric Channels	WEPSC47
48.	A. Novikov-Borodin	INR RAS, Moscow	Elimination of Dynamic Distortions in Measurement Data by Numerical Methods Using Dynamic Calibration of Diagnostic Equipment	WEPSC48
49.	A. Issatov	JINR, Dubna	Ion Energy Measurement System on the Sample Surface for the High Energy Beam-Line of U400M Accelerator	WEPSC49
50.	A. Titov	MIPT, Dolgoprudniy;	Enhancement of Transverse Beam Phase Space Analysis by Tomography Method at INR Linac	WEPSC50
51.		INR RAS, Moscow	Concept of Decision Support System for INR RAS Linac Beam Tuning	WEPSC51
52.	D. Monakhov	JINR, Dubna	NICA Booster Control System and Beam Diagnostics	WEPSC52
53.			Development of RF preamplifiers for the BPM of the NICA colliding rings	WEPSC53
54.	M. Nozdrin	JINR, Dubna	Linac-200 Gun Control System: Status and Plans	WEPSC54
55.	A. Pryanichnikov	PhTC LPI RAS, Protvino	Development of the Low Intensity Extraction Beam Control System at Protom Synchrotron for Proton Radiography Implementation	WEPSC55
56.	V. Balakin	BINP SB RAS, Novosibirsk	Beam Parameters Control and Operation Software Tools for VEPP-5 Injection Complex Damping Ring	WEPSC56
57.	N. Kurapov	RFNC-VNIIEF, Sarov	System of on-Line Energy Control of Electron Beam for Accelerator	WEPSC57
58.	O. Ivashchuk	BelSU, Belgorod	Controlled Pyroelectric Deflector of Electron Beam	WEPSC58