

Scientific Program
time schedule and oral talks

version September 26, 2021

September 26, 2021, Sunday	
During day	Arrival
16:00-19:00	Registration
19:00-20:00	Dinner
20:00-22:00	Welcome Party

September 27, 2021, Monday			
9:00-13:00	Registration		
9:30-10:00	Opening session <i>I. Meshkov, B. Sharkov</i>		
10:00-10:25	Session 1.1. Modern trends in Russian accelerator technology <i>Chairman I. Meshkov Secretary S. Melnikov</i>		
10:00-10:25 25 min	Boris Yurievich Sharkov (JINR, Dubna)	Development of Physics and Technology of Particle Accelerators for Basic Science and Applications	MOX01
10:25- 10:55	Special session 1. V. I. Veksler Prize Winners <i>Chairman I. Meshkov Secretary S. Melnikov</i>		
10:25-10:55 30 min	Sergei Gavrilov* (INR RAS, Moscow)	Development and Implementation of Bunch Shape Instrumentation for Ion Linacs	MOX02
10:55-11:15	Coffee-break		
11:15-11:45	Session 1.2. Modern trends in Russian accelerator technology <i>Chairman B. Sharkov Secretary B. Golovenskiy</i>		
11:15- 11:45 30 min	Valery Ivanovich 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
11:45- 13:15	Session 2.1. Modern accelerator projects in Russia <i>Chairman B. Sharkov Secretary B. Golovenskiy</i>		
11:45-12:15 30 min (on-line)	Andrey Valerievich Butenko (JINR, Dubna)	The NICA Complex Injection Facility	MOY01
12:15-12:45 30 min (on-line)	Evgeny Mikhailovich Syresin (JINR, Dubna)	NICA Ion Collider at JINR	MOY02
12:45-13:15 30 min	Timur Vyacheslavovich Kulevoy (NRC KI - ITEP/MEPhI, Moscow)	Linear Ion Accelerators for Physics and Industry	MOY03
13:15-13:35	Session 17. Radiation problems at accelerators <i>Chairman B. Sharkov Secretary B. Golovenskiy</i>		
13:15-13:35 20 min	Oleg Valentinovich Sumaneev (NRC KI - IHEP, Protvino)	Neutron Field Measurements by GFPC Based Monitors at the Carbon Beam of IHEP U-70 Proton Synchrotron.	FRC01
13:35-14:00	Photo		
14:00-15:00	Lunch		
15:00-16:20	Session 2.2. Modern accelerator projects in Russia (Continued) <i>Chairman M. Eseev Secretary V. Semin</i>		
15:00-15:30 30 min	Anton Viktorovich Bogomyagkov (BINP SB RAS, Novosibirsk)	Status of the Novosibirsk Fourth-Generation Light Source SKIF	MOY04
15:30-16:00 30 min	Dmitriy Anatolievich Starostenko (BINP SB RAS, Novosibirsk)	Linear Induction Accelerator LIA-2 Upgrade	MOY05
16:00-16:20 20 min	Anton Viktorovich 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 M. Eseev Secretary V. Semin</i>		
16:20-16:40 20 min	Vladimir Alekseevich Kalinin (NRC KI - IHEP, Protvino)	Status of U-70	MOB01
16:40-17:00 20 min	Valeriy Vasilievich 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		
20:00-21:00	Special session 2. (Small hall) <i>Chairman I. Meshkov Secretary A. Slivin</i>		
20:00-20:30 30 min	Sergey Markovich Polozov (MEPhI, Moscow)	Accelerator Physics and Education: MEPhI Experience and Problems	TUZ01
20:30-21:00 30 min	Discussion		

September 28, 2021, Tuesday			
9:30-10:00	Session 4. Heavy ion accelerators <i>Chairman Yu. Senichev</i> <i>Secretary M. Shandov</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 M. Shandov</i>		
10:00-10:30 30 min	Maksim Timoshenko (BINP SB RAS, Novosibirsk)	VEPP-2000 collider operation in 2019-2021 runs: challenges and results	TUY01
10:30-10:50 20 min	Pavel Alekseevich Piminov (BINP SB RAS, Novosibirsk)	VEPP-4M Electron Positron Collider Operation at High Energy	TUA01
10:50-11:10	Coffee-break		
11:10-11:30	Session 5.1. Colliders <i>Chairman Yu. Senichev</i> <i>Secretary M. Shandov</i>		
11:10-11:30 20 min	Yuliya Igorevna Maltseva* (BINP SB RAS, Novosibirsk)	Status of VEPP-5 Injection Complex	TUA02
11:30-14:00	Session 6. Beam dynamics in cyclic accelerators and storage rings, cooling methods, new acceleration methods <i>Chairman Yu. Senichev</i> <i>Secretary M. Shandov</i>		
11:30-12:00 30 min (on-line)	Sergei Aleksandrovich Kostromin (JINR, Dubna)	Ion Beam dynamics in NICA collider	TUB01
12:00-13:15	Lunch		
13:15-20:00	Excursion		
20:00-21:00	Dinner		

September 29, 2021, Wednesday			
9:30-10:30	Session 8. Linear accelerators and beam transfer lines <i>Chairman S. Polozov Secretary M. Nozdrin</i>		
9:30-9:50 20 min (on-line)	Alexey Vasilievich Tuzikov (JINR, Dubna)	Beam Transfer Systems of NICA Facility	WEA01
9:50-10:10 20 min	Konstantin Aleksandrovich 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	Mariya Arsentyeva* (BINP SB RAS, Novosibirsk)	200 MeV linac development for the SKIF light source injector	WEA03
10:30-10:50	Session 9.1. Superconducting magnets and cryogenics <i>Chairman S. Polozov Secretary M. Nozdrin</i>		
10:30-10:50 20 min (on-line)	Dmitry Nikolaevich Nikiforov* (JINR, Dubna)	SC Magnets for Project of NICA	WEB01
10:50-11:10 20 min	Andrey Vasilievich Shemchuk* (JINR, Dubna)	Magnetic Field Measurements for the NICA Collider Magnets and FAIR Quadrupole Units	WEB02
11:10-11:30	Coffee-break		
11:30-12:10	Session 9.2. Superconducting magnets and cryogenics (Continued) <i>Chairman V. Paramonov Secretary A. Shemchuk</i>		
11:30-11:50 20 min	Egbert 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	Nikolay Dmitrievich Topilin (JINR, Dubna)	MPD Yoke assembly	WEB04
12:10-13:10	Session 10. Magnetic and vacuum systems, power supplies and RF systems <i>Chairman V. Paramonov Secretary A. Shemchuk</i>		
12:10-12:30 20 min (on-line)	Victor Nikolaevich Karpinskii (JINR, Dubna)	Features of Power Supply Systems for Superconducting Structural Magnets of NICA Accelerators	WEC01
12:30-12:50 20 min (on-line)	Artem Rafaelevich Galimov* (JINR, Dubna)	Features of Reaching the Operating Vacuum in the Accelerators of the NICA Project	WEC02
12:50-13:10 20 min	D. Lovtsyus, K. Moiseev ("Intech Analytics" Co., St. Petersburg)	Modern decisions for vacuum accelerator systems	
13:10-14:00	Session 11.1. Control and Particle Beam diagnostic systems <i>Chairman V. Paramonov Secretary A. Shemchuk</i>		
13:10-13:30 20 min	Mariya Arsentyeva* (BINP SB RAS, Novosibirsk)	Beam Diagnostics for the SKIF Synchrotron Light Source	WED01
13:30-13:40 10 min	Mariya Arsentyeva* (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
13:40-14:00 20 min	Ivan Morozov* (BINP SB RAS, Novosibirsk)	Precise analysis of beam optics in VEPP-4M by turn-by-turn betatron phase advance measurement	WED04
14:00-15:30	Lunch		
15:30-16:30	Session 11.2. Control and Particle Beam diagnostic systems (Continued) <i>Chairman A. Feschenko Secretary I. Gorelyshev</i>		
15:30-15:50 20 min	Anton Alexandrovich 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 (on-line)	Elvis Janezic (I-Tech, Solkan, Slovenia)	Beam Position Monitoring Challenges and Techniques for Recent and Future Lightsources	WED06

16:10-16:30 20 min	Damir Ildarovich 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 K. Gikal</i>		
20:00-20:30 30 min	Dmitry Vladimirovich 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 Chairman E. Fischer Secretary S. Melnikov		
9:30-9:50 20 min	Maria Gusarova (MEPhI, Moscow)	Status of the SC Half Wave Resonator Cavities Production for NICA Project	THA01
9:50-10:10	Session 13. Control and synchronization systems Chairman E. Fischer Secretary S. Melnikov		
9:50-10:10 20 min (on-line)	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 Chairman I. Meshkov Secretary S. Melnikov		
10:10-10:50 40 min	Evgeny Evgenievich 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 Chairman V. Korchuganov Secretary A. Slivin		
11:30-11:50 20 min	Vyacheslav Kurakin (LPI, Moscow)	Beam Formation from Radionuclide Positron Source by the Charged Particles Beams Stochastic Optics Method	THC01
11:50-12:10 20 min	Vadim Skalyga (IAP RAS, Nizhny Novgorod)	A High Current Pure Proton Beam Source Prototype	THC02
12:10-12:30 20 min	Sergey Markovich Polozov (MEPhI, Moscow)	Numerical Simulations of Space Charge Dominated Beam Dynamics in Experimentally Optimized PITZ RF Photogun	THC03
12:30-14:10	Session 6. Beam dynamics in cyclic accelerators and storage rings, cooling methods, new acceleration methods Chairman P. Piminov Secretary A. Sergeev		
12:30-12:50 20 min	Mikhail Mikhailovich Shandov (JINR, Dubna)	Beam Correction System of the NICA Collider	TUB02
12:50-13:10 20 min	Yury Valerievich Senichev (INR RAS, Moscow)	Methods and Systematic Errors for Searching for the Electric Dipole Moment of Charged Particle Using a Storage Ring	TUB03
13:10-13:30 20 min	Maxim Bryzgunov (BINP SB RAS, Novosibirsk)	Development of the Electron Cooling System for NICA Collider	TUB04
13:30-13:50 20 min	Ivan Vasilievich Gorelyshev* (JINR, Dubna)	Stochastic Cooling System of the NICA Collider: Designing and Modeling	TUB06
13:50-14:10 20 min	Sergey Markovich Polozov (MEPhI, Moscow)	The Conceptual Design of the 7.5 MeV/u Light Ion Injector	TUB07
14:10-15:30	Lunch		
15:30-16:30	Session 7. Synchrotron radiation sources and free electron lasers Chairman V. Telnov Secretary K. Gikal		
15:30-15:50 20 min	Alexander Valentinov (NRC KI, Moscow)	Status of the Kurchatov Synchrotron Radiation Source	TUC01
15:50-16:10 20 min	Vladimir Nikolaevich Korchuganov (NRC KI, Moscow)	Concept of a New Kurchatov Synchrotron Radiation Source	TUC02
16:10-16:30 20 min (on-line)	Nikolay 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)		
19:00-22:30	Banquet		

October 1, 2021, Friday			
9:30-11:10	Session 15. Cyclotrons for basic and applied research <i>Chairman Yu. Gavrish Secretary V. Lisov</i>		
9:30-9:50 20 min	Kirill Borisovich Gikal* (JINR, Dubna)	Peculiarities of Producing 48Ca, 48Ti, 52Cr Beams at the DC-280 Cyclotron	FRA01
9:50-10:10 20 min	Yulia Konstantinovna Osina (NIIEFA, St. Petersburg)	Cyclotron of Multi-Charge Ions	FRA02
10:10-10:30 20 min	Vladimir Petrovich Kukhtin (NIIEFA, St. Petersburg)	Simulation and Design of the Permanent Magnet Multipole for DC140	FRA03
10:30-10:50 20 min	Vasiliy Alekseevich Semin* (JINR, Dubna)	The Experimental Research of Cyclotron DC-280 Beam Parameters	FRA04
10:50-11:10 20 min	Kirill Smirnov (NIIEFA, 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 K. Osipov</i>		
11:30-11:50 20 min	Sergey Yurievich 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	Denis Sergeevich Vorobev (BINP SB RAS, Novosibirsk)	Accelerators of ELV Series: Current Status and Further Development	FRB02
12:10-12:30 20 min	Evgeny Vadimovich Domarov* (BINP SB RAS, Novosibirsk)	Upgraded the Extraction Device of Focused Electron Beam Into the Atmosphere	FRB03
12:30-12:50 20 min	Valentin Vitalievich Paramonov (INR RAS, Moscow)	A linear accelerator for proton therapy	FRB04
12:50-13:10 20 min	Alexander Alexandrovich Pryanichnikov* (PhTC LPI RAS, Protvino)	Updated Status of Protom synchrotrons for Proton Therapy	FRB05
13:10-13:30 20 min	Vladimir 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
13:50-15:00	Lunch		
15:00-15:35	Final session. <i>Chairman B. Sharkov Secretary I. Gorelyshev</i>		
15:00-15:35 35 min	Mikhail Grigorievich Itkis (JINR, Dubna)	Superheavy elements — present and future	
15:35-16:20 45 min	Closing session <i>I. Meshkov, B. Sharkov</i>		
16:20-19:00	Free time		
19:00-20:00	Dinner		

* — Youth report