

Scientific Program

time schedule and oral talks

version September 20, 2018

October 01, 2018, Monday			
During day	Arrival		
14:00-15:00	Lunch		
15:00 – 16:00	Registration		
16:00 – 16:30	Opening session <i>S. Ivanov, I. Meshkov</i>		
16:30 – 17:10 40 min	V. Petrov (NRC KI - IHEP, Protvino)	Current problems in particle physics for future machines	
17:10 – 18:40	Session 2.1. Colliders <i>Chairman Secretary</i>		
17:10 – 17:40 30 min	M. Zobov (INFN/LNF, Frascati, Italy)	DAFNE Collider with Crab Waist Scheme: from KLOE-2 to SIDDHARTA-2 Experiment	MOXMH01
17:40 – 18:10 30 min	Yu. Shatunov (BINP SB RAS, NSU, Novosibirsk)	VEPP-2000 Collider Operation in Full Energy Range With New Injector	MOXMH02
18:10 – 18:40 30 min	E. Syresin (JINR, Dubna)	Status of Accelerator Complex NICA	MOXMH03
18:40 – 19:10	Session 1.0. Modern trends in accelerators <i>Chairman Secretary</i>		
18:40 – 19:10	M. Lalayan (MEPhI, Moscow)	Current Results of the 4th Generation Light Source USSR (Former SSRS4) Development	MOXMH04, THPSC02
19:30 – 21:30	Welcome Party		

October 02, 2018, Tuesday			
9:00 – 10:30	Session 1.1. Modern trends in accelerators <i>Chairman</i> _____ <i>Secretary</i> _____		
9:00 – 9:30 30 min	N. Zavyalov (VNIIEF, Sarov)	Charged-Particle Accelerators Progress and Prospects at RFNC-VNIIEF	TUXMH01
9:30 – 10:00 30 min	V. Korchuganov (NRC KI, Moscow)	The Main Problems and Its Solutions in Modern SR Sources	TUXMH02
10:00 – 10:30 30 min	B. Sharkov (JINR, Dubna)	Accelerator and Storage Ring Facility for Radioactive Ion Beam Physics - DERICA Project	TUXMH03
10:30-10:50			
10:50 – 11:10	Session 1.2. Modern trends in accelerators <i>Chairman</i> _____ <i>Secretary</i> _____		
10:50 – 11:10 20 min	K. Lotov (BINP SB RAS, Novosibirsk)	Proton Beam Self-Modulation and Electron Acceleration in AWAKE Experiment	TUCAMH01
11:10 – 12:30	Session 3.1. Particle dynamics in accelerators and storage rings, cooling methods, new methods of acceleration <i>Chairman</i> _____ <i>Secretary</i> _____		
11:10 – 11:40 30 min	A. Afonin (NRC KI - IHEP, Protvino)	Recent study and use crystal deflectors in U-70 accelerator of IHEP - status and prospects.	TUVMH01
11:40 – 12:10 30 min	N. Vinokurov (BINP SB RAS, Novosibirsk)	Four-Beam Compensation With Two Beams	TUVMH02
12:10 – 12:30 20 min	I. Meshkov (JINR, Dubna)	Optimum Luminosity of Proton-Ion Collider	TUCBMH01
12:30-14:00	Lunch		
14:00 – 15:00	Session 3.2. Particle dynamics in accelerators and storage rings, cooling methods, new methods of acceleration <i>Chairman</i> _____ <i>Secretary</i> _____		
14:00 – 14:20 20 min	M. Bryzgunov (BINP SB RAS, Novosibirsk)	Status of the 2.5 MeV electron cooling system for NICA collider	TUCBMH02
14:20 – 14:40 20 min	A. Ovsyannikov (St. Petersburg State University, St. Petersburg)	Numerical Analysis of Single Particle Dynamics in PMS Trap with Oscillating Dipole Field	TUCBMH03
14:40 – 15:00 20 min	E. Svystun (DESY, Hamburg, Germany)	Optimization of Electron Beam Quality in a Laser-Driven Plasma Accelerator with External Injection at SINBAD for ATHENAe	TUCBMH04
15:00 – 16:00	Session 2.1. Colliders <i>Chairman</i> _____ <i>Secretary</i> _____		
15:00 – 15:30 30 min	P. Piminov (BINP SB RAS, Novosibirsk)	Start VEPP-4M Facility Operation at High Energy	TUZMH01
15:30 – 16:00 30 min	Yu. Maltseva (BINP SB RAS, Novosibirsk)	VEPP-5 Injection Complex: New Possibilities for BINP Electron-Positron Colliders	TUZMH02
16:00 – 16:20			
16:20 – 16:40	Session 5. Heavy ion accelerators (Beam Transfer Channels) <i>Chairman</i> _____ <i>Secretary</i> _____		
16:20 – 16:40 20 min	A. Tuzikov (JINR, Dubna)	Heavy Ion Injection Chain of NICA Collider	TUCDMH01
16:40 – 17:10	Session 10.1. Control and diagnostic systems <i>Chairman</i> _____ <i>Secretary</i> _____		
16:40 – 17:10 30 min	V. Grishin (ESS, Lund)	A Family of Gas Ionization Chambers and SEM for Beam Loss Monitoring of LHC and Other Accelerators	TUZMH03
17:10 – 19:00	Poster session A		

October 03, 2018, Wednesday

9:00 – 10:30	Session 4.1. High intensity cyclic and linear accelerators		
	<i>Chairman</i>	<i>Secretary</i>	
9:00 – 9:30 30 min	S. Ivanov (NRC KI - IHEP, Protvino)	Status of U-70	WEXMH01
9:30 – 10:00 30 min	I. Kalagin (JINR, Dubna)	Heavy Ion Cyclotrons of FLNR JINR - Status and Plans	WEXMH02
10:00 – 10:30 30 min	E. Ivanov (NRC KI - PNPI, Gatchina)	The Status of the Accelerator Complex NRC KI – PNPI	WEXMH03
10:30-10:50			
10:50 – 12:50	Session 4.2. High intensity cyclic and linear accelerators		
	<i>Chairman</i>	<i>Secretary</i>	
10:50 – 11:10 20 min	H. Hoeltermann (BEVATECH, Frankfurt, Germany)	Light Ion Linear Accelerator up to 7 AMeV for NICA	WECAMH02
11:10 – 11:30 20 min	T. Kulevoy (NRC KI - ITEP, Moscow; MEPhI, Moscow)	Ion Accelerators for Russian Mega-Science Projects	WECAMH01
11:30 – 11:50 20 min	S. Polozov (MEPhI, Moscow)	Superconducting Linacs Development for Current and Future Russian Accelerator Projects: Progress and Problems	WECBMH01
11:50 – 12:10 20 min	G. Kropachev (NRC KI - ITEP, Moscow)	Normally conducting linacs in Russian accelerator projects	WECAMH03
12:10 – 12:30 20 min	A. Telnov (VNIIEF, Sarov)	Status Report of Development of High Power Beam CW Electron Accelerator	WECAMH04
12:30 – 12:50 20 min	M. Smetanin (VNIIEF, Sarov)	Calculated and Experimental Justifications of Generating High Power Electron Beam on a CW Resonance Accelerator	WECAMH05
12:50-14:00	Lunch		
14:00-14:20	Session 4.3. High intensity cyclic and linear accelerators		
	<i>Chairman</i>	<i>Secretary</i>	
14:00 – 14:20 20 min	A. Martynov (JINR, Dubna)	Status of the Nuclotron injection complex	WECAMH06
14:20-16:10	Session 8. Superconducting accelerators and cryogenic technology		
	<i>Chairman</i>	<i>Secretary</i>	
14:20 – 14:50 30 min	E.Fischer (FAIR, Germany)	Current Status of the Superconducting Magnet Production for the SIS100 Accelerator within the FAIR Project	WEYMH01
14:50 – 15:10 20 min	V. Borisov (JINR, Dubna)	Magnetic Measurements of NICA Booster and Collider Magnets	WECBMH02
15:10 – 15:30 20 min	L. Tkachenko (NRC KI - IHEP, Protvino)	Development of HED@FAIR quadrupole	WECBMH03
15:30 – 15:50 20 min	D. Nikiforov (JINR, Dubna)	Superconducting Magnets for NICA Project	WECBMH04
15:50-16:10			
16:10 – 17:20	Session 6.1. Synchrotron radiation sources and free electron lasers		
	<i>Chairman</i>	<i>Secretary</i>	
16:10 – 16:40 30 min	A. Valentinov (NRC KI, Moscow)	Status of the Kurchatov Synchrotron Radiation Source	WEZMH01
16:40 – 17:10 30 min	Ye. Fomin (NRC KI, Moscow)	Kurchatov synchrotron radiation source – from the 2nd to the 4th generation	WEZMH02
17:10 – 19:00	Poster session B		

October 04, 2018, Thursday			
9:00-10:10	Session 6.2. Synchrotron radiation sources and free electron lasers		
	<i>Chairman</i>	<i>Secretary</i>	
9:00 – 9:20 20 min	K. Zolotarev (BINP SB RAS, Novosibirsk)	Siberian Circular Photons Source "SKIF". Project review.	THCAMH01
9:20 – 9:40 30 min	S. Tzenov (IFIN-HH, Bucharest – Magurele)	Soliton and Shock Waves in Free and Magnetized Quasi-neutral Laser Induced Plasmas	THCAMH02
9:40 – 10:10 30 min	V. Shkaruba (BINP SB RAS, Novosibirsk)	Status of Development of Superconducting Insertion Devices for Generation of Synchrotron Radiation at Budker INP	THXMH01
10:10-10:30			
10:30 – 11:10	Session 9. RF power structures and systems		
	<i>Chairman</i>	<i>Secretary</i>	
10:30 – 10:50 20 min	G. Kurkin (BINP SB RAS, Novosibirsk)	New RF system for VEPP-5 Damping Ring	THCDMH05
10:50 – 11:10 20 min	Yu. Paramonov. (TORIY, Moscow)	C-Band High Power Amplifier Klystron developed for Linear Electron Accelerators	THCDMH06
11:10 – 12:30	Session 7. Magnetic and vacuum systems, power supplies		
	<i>Chairman</i>	<i>Secretary</i>	
11:10 – 11:30 20 min	S. Artamonov (NRC KI - PNPI, Gatchina)	Magnetic field of the 40-80 MeV H-MINUS cyclotron C-80: experiments and calculations	THCDMH01
11:30 – 11:50 20 min	V. Bochkov (Pulsed Technologies Ltd, Ryazan)	Power Supply Systems of High-Voltage Kickers on the Basis of Thyratrons	THCDMH02
11:50 – 12:10 20 min	A. Smirnov (JINR, Dubna)	Challenges of Obtaining of Ultra-High Vacuum in NICA Project	THCDMH03
12:10 – 12:30 20 min	Marco Bonfadini (MILLAB, Москва)	Review of a new vacuum equipment from Agilent Tech for particle accelerators	THCDMH04
12:30-14:00	Lunch		
14:00 – 14:20	Session 11. Ion sources and electron guns		
	<i>Chairman</i>	<i>Secretary</i>	
14:00 – 14:20 20 min	V. Paramonov (INR RAS, Moscow)	Evaluations of Parameters Stability of S-Band RF Gun Cavity Due to Effects of Pulsed RF Heating	THCBMH02
14:20 – 15:20	Session 10.1. Control and diagnostic systems		
	<i>Chairman</i>	<i>Secretary</i>	
14:20 – 14:40 20 min	A. Senchenko (BINP SB RAS, Novosibirsk; NSU, Novosibirsk)	TANGO Activities in BINP	THCEMH01
14:40 – 15:00 20 min	G. Fatkin (BINP SB RAS, Novosibirsk)	Modern Digital Synchronization Systems for Large Particle Accelerators	THCEMH02
15:00 – 15:20 20 min	A. Kuzhlev (NIIEFA, St. Petersburg)	Experience on the Application of Automatic Control Systems for Cyclotrons with Different Energies of Accelerated Particles	THCEMH03
15:20 – 15:40			
15:40-16:50	Session 10.2. Control and diagnostic systems		
	<i>Chairman</i>	<i>Secretary</i>	
15:40 – 16:10 30 min	V. Zhabitsky (JINR, Dubna)	Tomographic Reconstruction of the Longitudinal Distribution Function of Ions in Bunches During Acceleration at the Nuclotron	THZMH01
16:10 – 16:30 20 min	Yu. Rogovsky (BINP SB RAS, Novosibirsk)	Current dependence of bunch dimensions in VEPP-2000 collider	THCEMH04
16:30 – 18:30	Poster session C		
19:00—22:30	Conference dinner		

October 05, 2018, Friday			
9:00-11:00	Session 12.1. Medical and industrial applications <i>Chairman</i> <i>Secretary</i>		
9:00 – 9:30 30 min	Ch. Morris (LANL, Los Alamos, New Mexico, USA)	Charged Particle Radiography-a new way to look inside of things	FRXMH01
9:30 – 9:50 20 min	Oleg Zyatkov (NRC KI - IHEP, Protvino)	The proton radiography facility at the U-70 Synchrotron	TUPSA39
9:50 – 10:20 30 min	S. Rastigeev (BINP SB RAS, Novosibirsk)	Present status of AMS at BINP	FRXMH02
10:20 – 10:40 20 min	A. Maximov (NRC KI - IHEP, Protvino)	The carbon ion beam extraction scheme from the U-70 Synchrotron for radiobiological researches	FRCAMH01
10:40 – 11:00 20 min	S. Gavrilov (INR RAS, Moscow)	Proton Irradiation Facility at INR RAS Linac	FRCAMH02
11:00 – 11:20			
11:20 – 12:10	Session 12.2. Medical and industrial applications <i>Chairman</i>		
11:20 – 11:50 30 min	A. Bazhan (PhTC LPI RAS, Protvino)	Status of the Proton Therapy Complex Prometheus	FRXMH03
11:50 – 12:10 20 min	A. Chernykh (NRC KI - PNPI, Gatchina)	Radiation Oncology Ophthalmic Center Based on the C-80 Accelerator at the NRC "Kurchatov Institute" – PNPI	FRCAMH03
12:10 - 12:40	Closing session <i>S. Ivanov, I. Meshkov</i>		
12:40-14:00	Lunch		
	Departure		