

October 4, 2004, Monday



9.00 – 12.00	Registration (hotel “Dubna”)	
13.00-14.00	Lunch	
15.00 – 16.00	Opening	
16.00 - 18.00	<i>P0 – Afternoon Session</i> <i>Chairman - I.N. Meshkov, Secretary – G.V. Trubnikov</i>	
Session “Modern trends in accelerator development, colliders”		
P0-1 30 min	E.B. Levichev (BINP SB RAS, Novosibirsk)	“Status and prospects of the BINP colliders”
P0-2 30 min	M.F. Vorogushin, (NIEFA - NPK LUTS, St.Petersburg)	“Electrophysical Complexes Based on Charged Particle Accelerators”
P0-3 30 min	C. Carli (CERN)	“Ions for LHC: From Source to Collisions”
P0-4 30 min	M. Martens (FNAL)	“Tevatron Status and Luminosity Upgrade Plans”
19.00	Welcome Party (Hotel “Dubna”)	

October 5, 2004, Tuesday

9.00-11.00	<i>P1 – Morning session</i> <i>Chairman – G.D. Shirkov, Secretary – S.L. Yakovenko</i>	
Session “Modern trends in accelerator development, colliders”		
P1-1 20 min	J. Dietrich (Juelich)	Status of COSY and future plans
P1-2 20 min	V.V. Parkhomchuk (BINP SB RAS, Novosibirsk)	“Testing of the 300 keV cooler”
P1-3 20 min	M.I. Ayzatskiy (NSC KIPT, Kharkov)	“Development of electron linacs in the NSC KIPT”
P1-4 20 min	A.N. Dovbnya (NSC KIPT, Kharkov)	“SALO” project
P1-5 20 min	A.P. Maltsev (IHEP, Protvino)	“IHEP RFQ and RFQ-DT Linear Accelerators”
P1-6 20 min	P.V. Tomashevich (NIIIEFA - NPK LUTS, St.Petersburg)	“High-voltage pulse generator for DC photoinjector”
11.00-11.20		
11.20-13.00	<i>P2 – Morning session</i> <i>Chairman – B.Yu. Sharkov, Secretary – A.O. Sidorin</i>	
Session “Injectors, Ion sources. Electron guns”.		
P2-1 20 min	V.I. Pershin (ITEP, Moscow)	“Ion injector I-4. Development and construction”
P2-2 20 min	A.A. Starostenko (BINP SB RAS, Novosibirsk)	“Status of VEPP-5 Injection complex”
P2-3 20 min	A. Efremov (JINR)	“Preliminary tests of the DECRIS-SC ion source”
Session “Radiation problems in accelerators”		
P2-4 20 min	Talanov V. (IHEP, Protvino)	“Accelerator generated background sources analysis for the IP1 interaction Region of the LHC”
P2-5 20 min	A.V. Sannikov (IHEP, Protvino)	“Development of the DVGN-01 individual dosimeter for effective dose monitoring of personal exposure in mixed photon-neutron radiation fields”
13.00-14.00 Lunch		
14.00-15.40	<i>P3 – Afternoon Session</i> <i>Chairman – E.F. Troyanov, Secretary – I.A. Seleznev</i>	
Session “High intensity cyclic and linear accelerators”		
P3-1 20 min	C. Rossi (CERN)	“Linac for a New H⁻ Linear Injector at CERN”
P3-2 20 min	N.N. Alexeev (ITEP, Moscow)	“Experiments with carbon ions accumulation in the ITEP-TWAC Storage Ring”
P3-3 20 min	Yu.S. Fedotov (IHEP, Protvino)	“Slow extraction system from IHEP accelerator U-70. Status and development”
P3-4 20 min	V.G. Kurakin (Lebedev Physical Institute)	“Lebedev Physical Institute High Current Racetrack Microtron Upgrade”
P3-5 20 min	V.I. Kotov (IHEP, Protvino)	“Of proton beam extraction from the accelerators by using bent crystals”
15.40-16.00		
16.00-17.50	<i>P4 – Evening session</i> <i>Chairman – A.N. Dovbnya, Secretary – A.G. Kobets</i>	
Session “Accelerating structures and powerful electronics”		
P4-1 30 min	V.N. Osipov (BINP SB RAS, Novosibirsk),	“Rf systems of charged particle accelerators”
P4-2 20 min	E.A.Petrov (TIRA Corp Ltd, Saint Petersburg)	“High frequency power generators for accelerators”
P4-3 20 min	N.P. Sobenin (MEPhI)	“Microwave feeding system devices of linear collider”
P4-4 20 min	S.V. Motygin (BINP SB RAS, Novosibirsk)	“RF Station for Stacking of Ion Beam for HIRFL-CSR, Lanzhou, China”
P4-5 20 min	A.M. Popov (BINP SB RAS, Novosibirsk)	“Status of 178,5 MHZ RF system for the DUKE FELL storage ring”

11.00 – 19.00	Poster session A (LIT)
18.00 – 19.00	Poster discussion

October 6, 2004, Wednesday

9.00-11.00	<i>P5 – Morning session</i> <i>Chairman – K.P. Myznikov, Secretary – R.V. Pivin</i>	
Session “Heavy ion accelerators”		
P5-1 30 min	B.Yu. Sharkov (ITEP, Moscow)	“ITEP TWAC heavy ion accelerator-accumulator”
P5-2 30 min	P. Spiller (GSI)	“Status of the two-stage synchrotron project SIS100/300”
P5-3 30 min	G.G. Gulbekyan (JINR)	“Project DRIBS. Status”
P5-4 30 min	J. Franko (JINR)	“The Cyclotron Centre of the Slovak Republic”
11.00-11.20		
11.20-13.00	<i>P6 – Morning session</i> <i>Chairman – E.B. Levichev, Secretary – Yu.V. Korotaev</i>	
Session “Control and diagnostic systems”		
P6-1 20 min	N.Yu. Muchnoi (BINP SB RAS, Novosibirsk)	“First results of the VEPP-4M collider energy calibration by Compton backscattering of the infrared laser radiation”
P6-2 20 min	O.I. Meshkov (BINP SB RAS, Novosibirsk)	“Optical diagnostic of the VEPP-4M collider”
P6-3 20 min	V.I. Moiseev (RNC "Kurchatov Institute")	“Ultrasound Effects and Methods in Particle Accelerators”
P6-4 20 min	K.A. Trukhanov (SSC RF Institute for Biomedical Problems RAS)	“Theoretical and experimental study of beam energy spread diagnostics with Vavilov-Cherenkov radiation at optical and RF wavelength.”
P6-5 20 min	A.S. Kayukov (JINR)	“Data obtaining and processing software for ion-beam monitor at the Frankfurt 14Ghz ECRIS”
13.00-14.00	Lunch	
14.00-15.40	<i>P7 – Afternoon Session</i> <i>Chairman – V.N. Korchuganov, Secretary – A.V. Smirnov</i>	
Session “Synchrotron radiation sources and free-electron lasers”		
P7-1 20 min	N.A. Vinokurov (BINP SB RAS, Novosibirsk)	“Status of the Novosibirsk high power free electron laser”
P7-2 20 min	A. Gamp (DESY)	“The Transformation of the Tesla Test Facility into the VUV FEL User Facility at DESY”
P7-3 20 min	A.A. Krasnov (BINP SB RAS, Novosibirsk)	“Influence of Synchrotron Radiation on vacuum dynamic in supercolliders”
P7-4 20 min	V.N. Korchuganov (BINP SB RAS, Novosibirsk)	“Operation and plans of the accelerator complex in Kurchatov Center of Synchrotron Radiation”
P7-5 20 min	A.A. Varfolomeev (RNC "Kurchatov Institute")	“Inverse FEL high energy gain acceleration schemes optimized for different electron beam energy ranges”
15.40-16.00		
16.00-17.00	<i>Excursions to JINR Basic Facilities (LNP territory)</i>	
17.00-18.00	<i>Excursions to JINR Basic Facilities (LHE territory)</i>	

11.00 – 15.30	Poster session B (LIT)
15.30 – 16.00	Poster discussion

October 6, 2004, Wednesday


11.20 – 16.00	Parallel session “Physics and techniques of cyclotrons” (FLNR)
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October 7, 2004, Thursday

9.00-11.00	<i>P8 – Morning session</i> <i>Chairman – V.V. Parkhomchuk, Secretary – A.V. Philippov</i>	
Session “Beam dynamics in accelerators and storage rings, cooling methods, new methods of acceleration.”		
P8-1 20 min	L.M. Gorbunov (Lebedev Physical Institute)	“Laser-plasma based acceleration”
P8-2 20 min	A.N. Lebedev (Lebedev Physical Institute)	“Laser Cooling in Electron Storage Ring and its Limits”
P8-3 20 min	A.O. Sidorin (JINR)	“Intensive ion beams in storage rings with electron cooling ”
P8-4 20 min	A.V. Smirnov (JINR)	“Numerical simulation of particle dynamics in storage rings using BETACOOl code”
P8-5 20 min	M.G. Zeitlin (IPME RAS, St. Petersburg)	“Localized States and Patterns in Complex Vlasov-Maxwell-Poisson Dynamics”
P8-6 20 min	Yu.A. Svistunov (NIEFA-NPK LUTS, St.Petersburg)	“IFEL project with high accelerating gradient”
11.00-11.20		
11.20-13.00	<i>P9 – Morning session</i> <i>Chairman – A.N. Lebedev, Secretary - A. Tamonov</i>	
Session “Beam dynamics in accelerators and storage rings, cooling methods, new methods of acceleration.”		
P9-1 20 min	I.A. Seleznev (JINR)	“LEPTA accumulator. Electron beam dynamics, first experiments”
P9-2 20 min	A.D. Ovsiyannikov (St. Petersburg State University)	“Modeling and Optimization of Beam Dynamics in RFQ Structures”
P9-3 20 min	N.F. Shul'ga (NSC KIPT, Kharkov)	“On coherent radiation at collisions of short bunches of relativistic particles”
P9-4 20 min	E.G. Bessonov (Lebedev Physical Institute)	“On violation of the Robinson's damping criterion and enhanced cooling of charged particles beams in storage rings”
P9-5 20 min	Gurevich A.S. (IHEP, Protvino)	“Operational Experience and Further Development of the IHEP booster”
13.00-14.00 Lunch		
14.00-15.40	<i>P10 – Afternoon Session</i> <i>Chairman – A.I. Ageev, Secretary - S.A.Kulikov</i>	
Session “Superconducting accelerators and technology of cryogenics”		
P10-1 30 min	K.V. Zolotarev (BINP SB RAS, Novosibirsk),	“High magnetic field superconducting magnets fabricated in Budker INP for SR generation”
P10-2 30 min	A.I. Malakhov (JINR)	“JINR Nuklotron. Status and experiments”
P10-3 20 min	L.M. Sevryukova (IHEP, Protvino)	“Status of the Work on the Base Directions of the “ RF superconductivity for Accelerators” Program at the Federate Problem Lab at IHEP”
P10-4 20 min	S. Zintchenko (IHEP, Protvino)	“Status of Superconducting Radiofrequency Separator Cryogenic System”
15.40-16.00		
16.00-17.40	<i>P11/I – Evening session (1-st Parallel Session) – LIT</i> <i>Chairman – N.K. Kuksanov, Secretary - S.N. Bushmeleva</i>	
Session “Accelerators for medical and industrial purposes” (LIT)		
P11/I-1 20 min	N.V. Zavyalov (RFNC-VNIIEF, Sarov)	“Pioneer Experiments on Models of Reactors of a Cascade Type”
P11/I-2 20 min	V.A. Romanov (Institute for Physics and Power Engineering, Obninsk)	“Electrostatic Accelerators in Applied Research and Beam Technologies ”
P11/I-3 20 min	V.O. Tkachenko (BINP SB RAS, Novosibirsk)	“Electron accelerator for energy up to 5.0 MeV and beam power up to 50 kW with X-ray converter ”
P11/I-4 20 min	Yu.N. Gavrish (NIEFA-NPK LUTS, St.Petersburg)	“Linear Electron Accelerators for Radiation Processing. Current Status”
P11/I-5 20 min	M.M. Kats (ITEP, Moscow)	“Simple Planar System SPS(60)”

16.00-17.40	<i>P11/2 – Evening session (2-d Parallel Session) – UC LIT</i> <i>Chairman – M.F. Vorogushin, Secretary - D.V.Monakhov</i>	
Session “Magnetic systems, power supply and vacuum systems for accelerators”		
P11/2-1 20 min	K.A. Rezykh (Institute for Physics and Power Engineering, Obninsk)	“Calculation Models for Electric Strength of Gas Insulation of High-Voltage Structures (Overview)”
P11/2-2 20 min	Yu.A. Evtushenko (BINP SB RAS, Novosibirsk)	“300 kV Power Supply with high stability for electron cooler.”
P11/2-3 20 min	P.I. Nemytov (BINP SB RAS, Novosibirsk)	“High Power Transistors Frequency Converter for Supply up to 500 kW DC Electron Accelerators”
P11/2-4 20 min	A.E. Valkov (Institute of nuclear research NAS of Ukraine, Kiev)	“Using of the U-240 cyclotrons magnet-monochromator for a stable isotope separation”

11.00 – 19.00	Poster session C (LIT)
18.00 – 19.00	Poster discussion
19.00	Banquet (HIC)

October 8, 2004, Friday		
9.00-11.00	<i>P12 – Morning session</i> <i>Chairman – E.M. Syresin, Secretary - V.N. Malakhov</i>	
Session “Accelerators for medical and industrial purposes”		
P12-1 20 min	G.V. Mytsin (JINR)	“JINR Phasotron. Medical beams”
P12-2 20 min	S.V. Akulinichev (INR, Triotsk)	“Radiological centre based on INR proton linac”
P12-3 20 min	S.Yu. Taskaev (BINP SB RAS, Novosibirsk)	“Accelerator based neutron source for neutron capture therapy”
P12-4 20 min	A.V. Sidorov (NII-EFA-NPK LUTS, St.Petersburg)	“Main Trends of EFARAD - Domestic Complex for Radiotherapy of Oncological Patients”
P12-5 20 min	V.V. Petrenko (RNC "Kurchatov Institute")	“Application of electron accelerators for solution of some urgent problems of hydro-metallurgical technologies”
P12-6 20 min	N.K. Kuksanov (BINP SB RAS, Novosibirsk)	“DC High Power ELV Accelerators for Industrial and Research Application”
11.00 - 11.30	<i>Closing session</i>	
11.30-12.00		
12.00	Excursion to Sergiev Posad	