

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.	A. Paramonov	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
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.	A. Durkin	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	NIIIEFA, 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

Session 16. "Accelerators for technical and medicine applications"

№	Last_Name	Affiliation	Title	Paper ID
57.	M. Eseev	NAFU, Arkhangelsk	Experimental Investigation the Synthetic Crystal Diamond Plates of Methods of Positron Annihilation Spectroscopy	MOPSA57
58.			Sources of Ultrashort X-ray Pulses in the Investigation of the Structure and Dynamics of Nanosystems	MOPSA58