"MODERN PROBLEMS OF PHYSICS AND TECHNOLOGIES", devoted to the 75th Anniversary of the National Research Nuclear University MEPhI and 95th Anniversary of Academician N.G. Basov April 17-21, 2017Moscow, MEPhI

18.04 Tuesday

09.00 - 10.00	Registration
10.00 - 13.00	Plenary session 1. Chairman: I.I. Yashin
	Assembly hall of MEPhI
10.00 - 10.30	M.N. Strikhanov, Rector of MEPhI; O.N. Krokhin, Scientific Adviser of N.G.
	Basov Higher School of Physics
	Opening of the school-conference
10.30 - 11.00	I.N. Zavestovskaya, (MEPhI, LPI of RAS)
	75th anniversary of MEPhI
11.00 - 11.30	B.Yu. Sharkov (FRRC, Germany, MEPhI)
	Universe in the laboratory - FAIR and NICA mega science projects
11.30 12.00	K.V. Kopeikin (SPbSU)
	Consciousness and physical reality
12.00 - 12.30	O.N. Krokhin (LPI, MEPhI)
	Photon
12.30 - 13.00	I.G. Zubarev (LPI, MEPhI).
	95th anniversary of Academician N.G. Basov, the Nobel prize - winner
13.00 - 14.00	Lunch
14.00 - 16.30	Poster session 1. Chairman V.A. Kurnaev
	Reading hall of the library, 2d floor
	Session «Laser physics, solid state physics, optics and plasma physics», Session
	«Engineering physics technologies for biomedicine»
16.30 - 17.00	Coffee break
17.00 - 19.30	Youth session 1. Chairman: Yu.A. Aleshchenko
	Conference hall of 3rd floor of the main building of MEPhI
	Oral presentations in English on all subjects of the School

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19.04 Wednesday

09.00 - 10.00	Registration
10.00 - 13.00	Plenary session 2. Chairman: V.N. Petrovsky
	Auditorium A304 of the main building of MEPhI
10.00 - 10.30	Yuris Purans (University of Latvia, MEPhI)
	Modern problems of XAFS-spectroscopy using synchroton radiation
10.30 - 11.00	Yu.N. Kulchin (IACP, Far-East Branch of RAS)
	Pulsed laser nanofabrication of advanced nanophotonic structures
11.00 - 11.30	A. Kabashin (Aix-Marseille University, France, MEPhI)
	Plasmon metananomaterials for ultrasensitive biosensing -
11.30 12.00	Igor V. Meglinski - (University of Oulu, Finland, MEPhI)
	Coherent effects of multiple scattering of light: application in biomedical
	optical diagnostics
12.00 - 12.30	Giovanni Barbero - (Politecnico di Torino, Italy, MEPhI)
	Effect of the viscosity on the electrical response of a hydrosolution
12.30 - 13.00	A.I. Bolozdynya (MEPHI)
	Problem of dark matter or How to see Invisible
13.00 - 14.00	Lunch
14.00 - 16.30	Poster session 2. Chairman: A.A. Postnov
	Reading hall of the library, 3rd floor
	Session «Nuclear physics and technologies, particle physics, astrophysics and
	cosmophysics», Session «IT technologies, intelligent systems, cybersecurity», Session
	«Electronics, automatics, spintronics, nanotechnologies»
16.30 - 17.00	Coffee break
17.00 - 19.30	Youth session 2. Chairman: G.V. Tikhomirov
	Conference hall of 3rd floor of the main building of MEPhI
	Oral presentations in Russian.
	Session «Laser physics, solid state physics, optics and plasma physics», Session
	«Nuclear physics and technologies, particle physics, astrophysics and cosmophysics»
	cosmophysics//

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20.04 Thursday

09.00 - 10.00	Registration.
10.00 - 13.00	Plenary session 3. Chairman: V.Yu. Timoshenko
	Conference hall of 3rd floor of the main building of MEPhI
10.00 - 10.30	A. M. Zagrebaev (MEPhI)
	Process optimization of nuclear power stations in force majeure circumstances
10.30 - 11.00	L.A. Kuzmichev (SINP MSU)
	Gamma-astronomy of super high energies and TAIGAProject
	M. M. Nazarov (NRC "Kurchatov Institute")
11.00 - 11.30	How short can powerful laser pulses be made and where superstrong optical
	fields are used?
11.30 - 12.00	V.A. Oleinikov (IBCh RAN, MEPhI)
11.30 12.00	Nano-, Micro-, Bio-: New tools for medicine
12.00 - 12.30	V. Lysenko (National Institute of Applied Sciences, Lyon, France, MEPhI)
12.00 12.30	Photoelectric measurements on silicon for electronic tongue application
	Rudolf Wolfgang Steiner ("Institute for Laser Technologies in Medicine and
12.30 - 13.00	Metrology (ILM)" at the University of Ulm, Germany, MEPhI) <i>Trends in</i>
	Therapeutic - Laser Applications
12.00 - 13.00	Registration of schoolchildren
13.00 - 14.00	Lunch
14.00 - 15.00	Plenary session 4. Chairman: A. Kharin
	Conference hall of 3rd floor of the main building of MEPhI
	Presentation of the Strategic Academic Units of MEPhI (INPh&E, PhysBio,
	LAPLAS, NESPI, ICIS)
15.00 - 16.30	Poster session for schoolchildren. Coffee break.
	Reading hall of the library, 3rd floor
15.00 - 16.30	Excursion to the laboratories of MEPhI for participants
16.30 - 17.30	Awarding ceremony of the winners of competition of the schoolchildren projects
17.30 - 18.00	Excursion to the laboratories of MEPhI for schoolchildren

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21.04 Friday

09.00 - 10.00	Registration
10.00 - 13.00	Plenary session 5. Chairman: I.N. Zavestovskaya
	Auditorium A304 of the main building of MEPhI
10.00 - 10.30	A.V. Parfenov (Physical Optics Corporation, USA)
	Advanced Semiconductor (solid-sate) image detectors
10.30 - 11.00	V.N. Mironov (3D bioprinting solutions)
	Technology of 3D bioprinting: From idea to new industry
11.00 - 11.30	Valery Bychenkov (LPI of RAS)
11.00 - 11.50	Perspective frequency standards for terrestrial and space Applications
	S.P. Kotova (Samara Branch of LPI, Samara)
11.30 - 12.00	Formation of double-leafed light fields with the rortation of the intensity
	distribution for microscopy
	Anton Fojtik (Czech Technical University in Prague, Czech Republic)
12.00 - 12.30	NANO – TODAY'S FASCINATING PHENOMENON.
	NANO - The next dimension
12.30 - 13.00	V. N. Chikin, A.A. Sukhareva (MIPT, RUSNANO)
	Interuniversity program of specialist training for innovation enterprises
13.00 - 14.00	Lunch
	Youth session 3. Chairman: V.V. Klimov
	Assembly hall of - MEPhI
14.00 - 16.00	Oral presentations in Russian
	Session «Engineering physics technologies for biomedicine», Session «IT technologies,
	intelligent systems, cybersecurity», Session «Electronics, automatics, spintronics,
16.00 - 16.30	nanotechnologies» Coffee break
10.00 - 10.30	
16.30 - 18.00	Chairman: I.I. Yashin
	Young scientist award. Closing School-Conference. Awarding ceremony of the
	winners of the online Olympiad in Physics
	Assembly hall of MEPhI

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22.04 Sunday

08.30 - 14.00	All-Russian Student Olympiad in Biophysics and Nuclear Medicine
15.00 - 18.00	Excursion around Moscow
18.00 - 22.00	Departure of participants

The program of the all-Russian stage of the All-Russian Students' Olympiad in Biophysics and Nuclear Medicine

22.04 Saturday. The first day

8.30 - 9.30	Registration of participants
9.30 - 9.45	Opening of the Olympiad
10.00 - 14.00	Holding the Olympiad
14.00 - 15.00	Lunch
15.00 - 17.00	The cultural program
	23.04 Sunday. The second day
11.00 – 13.00	Announcement of results. Awarding of winners and laureates
13.00 - 14.00	The cultural program
14.00 - 18.00	Departure of nonresident participants