NEC-2015 Program

September 28

Opening Plenary

	Chair: Bird Ian			
	Welcome of JINR – Matveev Victor			
	Welcome of CERN – Kurtyka Tadeusz			
09.00-10.00	Welcome of Montenegro government			
	Welcome of Municipality of Budva			
	Welcome of Montenegrin scientific community			
	Welcome of Russian Ambassador to Montenegro			
	Welcome of NEC'2015 Local Organizing Committee – Hrgian Andrey			
	Welcome of sponsors (IBS Platformix, Jet Infosystems, Niagara)			
10.00-10.30	Matveev Victor (JINR) - The JINR Scientific Program.			
10.30-11.00	Mapelli Livio (CERN) – The CERN Scientific Program - Is there life after Higgs?			
11.00-11.30	Coffee break			
	Chair: Korenkov Vladimir			
11.30-12.00	Kurtyka Tadeusz, Schaefer Christoph (CERN) - Collaboration of CERN with CIS			
	and South-East-European countries.			
12.00-12.30	Bird Ian (CERN). The evolution of the WLCG grid.			
12.30-14.00	LUNCH			
	Chair: Kurtyka Tadeusz			
14.00-14.30	Lamanna Massimo (CERN). Large-scale data services for science: present and			
	future challenges.			
14.30-15.00	Korenkov Vladimir (JINR). Status and perspectives of Laboratory of Information			
	Technology at JINR.			
15.00-15.30	Peshekhonov Dmitry (JINR). Status of the NICA project at JINR.			
15.30-15.50	Coffee break			
	Chair: Lamanna Massimo			
15.50-16.10	Paramonov Aleksandr (IBS Platformix, Moscow). Virtualization of computations -			
46 40 46 20	new approaches and technologies: from data storage systems to desktops.			
16.10-16.30	Struchenko Alexey (Jet Infosystems, Moscow). The main approach to Big Data			
16 20 16 52	parallel processing: Oracle way.			
16.30-16.50	Garanov Dmitry (Niagara, Moscow). Supermicro/Niagara Innovation			
	Technologies.			

Welcome Party

September 29

	Detector & Nuclear Electronics				
	Chair: Vankov Ivan				
10.00-	Dimitrov Lubomir (INRNE BAN, Sofia). Radiation Monitoring of the GEM Muon Detectors				
10.20	at CMS.				
10.20-	Strekalovsky Oleg (JINR). Trigger Module for Spectrometer with DT5742 Digitizers				
10.35					
10.35-	Buryakov Mikhail (JINR). Status of the Front-end-Electronics based on the NINO ASIC for				
10.50	the Time-of-Flight measurements in the MPD.				
10.50-	Borisov Vladimir (JINR). Magnetic measurement system for series production of NICA				
11.05	superconducting magnets. Data acquisition, control and data analysis.				
11.05-	Coffee break				
11.25					
	Chair: Gorbachev Evgeny				
11.25-	Kuznetsov Aleksey (JINR). Electronic devices for multichannel setups in FLNR.				
11.40					
11.40-	Motycak Stefan (JINR). New beam diagnostic system for MASHA setup .				
11.55					
11.55-	Gorbunov Nikolay (JINR). Groundbased complex for checking the optical system of the				
12.10	TUS experiment.				

LUNCH 12.10-14.00

	Triggering, Data Acquisition, Control Systems				
	Chair: Mapelli Livio				
14.00-14.30	Gorbachev Evgeny (JINR). Status o	f the Nuclotron	and NICA control system development.		
14.30-14.50	Karetnikov Maxim (VNIIA , Moscov neutron technology.	w). Multidetect	or system for nanosecond tagged		
14.50-15.10	Tsyganov Yury (JINR). New trends	in developmen	t of "Active Correlation" Technique.		
15.10-15.30	Coffee break				
Cl	hair: Gorbunov Nikolay		Chair: Karetnikov Maxim		
15.30-15.45	Monakhov Dmitrii (JINR). Development of tools for real- time betatron tune measurement at Nuclotron.	15.30-15.45	Voinov Alexey (JINR). New Analog Electronics for the New Challenges in the SHEs Synthesis .		
15.45-16.00	Sedykh Georgy (JINR). The thermometry system of superconducting magnets test bench for the NICA accelerator complex.	15.45-16.00	Murashkevich Svetlana (JINR). DeLiDAQ-2D – a new data acquisition system for position-sensitive neutron detectors with delay-line readout.		
16.00-16.15	Andreev Vasily (JINR). TANGO Standard Software for Nuclotron Beam Slow Extraction Control.	16.00-16.15	Novoselov Aleksey (JINR). Data acquisition system for focal plane detector of mass separator MASHA –		

16.15-16.30	Shirikov Ilyia (JINR). Low Level Radio Frequency system of NICA linac.	16.15-16.30	Ponkin Dmitriy (JINR). ESIS KRION-6T beam emittance measurement device .
16.30-16.45	Filippov Ivan (JINR). DAQ software in MPD experiment NICA .	16.30-16.45	Zamriy Victor (JINR). Host-based data acquisition system to control pulsed facilities of the accelerator .
16.45-17.00	Rogov Victor (JINR). LO Trigger unit for BM@N setup.	16.45-17.00	Yudin Andrey (JINR). Automatization of control channel 8 of Phasotron at DLNP of JINR.
17.00-17.15	Terletskiy Andrey (JINR). Data acquisition electronics at BM@N.	17.00-17.15	Slepov Ivan (JINR). Creating interactive video broadcast system at VBLHEP.
17.15-17.30	Egorov Dmitry (JINR). Slow Control system at BM@N experiment.		

<u>Workshop ''From Local File Catalog to Name space publisher + meta-</u> <u>catalog''</u> : 10:00 – 18:00

September 30

	ATLAS DAQ	
Chair: Peshekhonov Dmitry		
09.00-9.15	Zivkovic Lidija (Institute of Physics Belgrade, Serbia). Real-time flavour	
	tagging selection in ATLAS.	
09.15-9.30	Sawyer Lee (Louisiana Tech University). The ATLAS Jet Trigger Software	
	and Performance for LHC Run 2.	
09.30-9.45	Ryan White (Universidad Técnica Federico Santa María). The Upgrade of	
	the ATLAS Electron and Photon Triggers towards LHC Run 2 and their	
	Performance.	
09.45 – 10.05	Coffee break	
	Chair: Sawyer Lee	
10.05-10.20	Qin Yang (University of Manchester). The design and performance of the	
	ATLAS Inner Detector trigger for Run 2.	
10.20-10.35	Asbah Needa (DESY). A Hardware Fast Tracker for the ATLAS trigger.	
10.35-10.50	Tatsuya Mori (The University of Tokyo). Phase-I Trigger Readout	
	Electronics Upgrade of the ATLAS Liquid-Argon Calorimeters .	
10.50-11.10	Coffee break	
	Non-relational databases and heterogeneous repositories	
	Chair: Peters Andreas	
11.10-11.40	Barberis Dario (University and INFN Genova). Evolution of the use of	
	relational and NoSQL databases in the ATLAS experiment.	
11.40-11.55	Gertsenberger Konstantin (JINR). The unified database for the fixed	
	target experiment BM@N.	
11.55-12.10	Kyaw Thurein (Saint Petersburg State University). Parallel Database	
	support for Distributed Computing.	
12.10-12.25	Bashsashin Maksim (JINR). NICA Project Management Information	
	System.	
12.25-12.40	Filozova Irina (JINR). Concept of JINR Corporate Information System.	

LUNCH 12.40-14.00

Excursion: 14:00 – 20:00

October 1

	Distributed Computing. GRID & Cloud computing	
	Chair: Al-Turany Mohammad	
9.00-9.30	Bukowiec Sebastian (CERN). CERN LHC run 2 on OpenStack.	
9.30-10.00	Bogdanov Aleksander ((Saint Petersburg State University).). Desktop supercomputer: what can it do?	
10.00-10.30	Andreeva Julia (CERN). Migration of the WLCG monitoring infrastructure to a new technology stack .	
10.30-10.50	Ososkov Gennady (JINR). Simulation concept of NICA-MPD-SPD Tier0-Tier1 computing facilities.	
10.50-11.10	Coffee break	
	Chair: Fuhrmann Patrick	
11.10 -11. 30	Klimentov Alexei (BNL) and Krasnoprvtsev Dimitrii (National Research Nuclear University MEPhI). Study of ATLAS TRT performance with GRID and supercomputers.	
11.30-12.00	Peters Andreas (CERN). EOS - evaluating object drives and non-volatile memory.	
12.00-12.30	Tsaregorodtsev Andrei (CPPM-IN2P3-CNRS). Status of the DIRAC Project: overview and recent developments.	

LUNCH 12.30-14.00

Distributed Computing. GRID & Cloud computing (cont.)		Computations with Hybrid Systems (CPU, GPU, coprocessors)			
Chc	nir: Lokajicek Milos		Chair: Degtyarev Alexander		Chair: Degtyarev Alexander
14.00-14.15	Kundrat Jan (Institute of Physics of the AS CR and CESNET). Grids and Clouds in the Czech Republic.		14.00-14.30)	Zrelov Petr (JINR) - HybriLIT : status report.
14.15-14.30	Degteariov Nichita (RENAM). Scientific Computing Infrastructure and Services in Moldova.				
14.30-14.45	Yermolchyk Vitaly (NC PHEP BSU). Usage of cloud platform for the BY-NCPHEP Tier3 site.		14.30-14.45	5	Kulabukhova Nataliia (Saint Petersburg State University). Virtual Accelerator Laboratory: the symbolic presentation for space charge fields.
14.45-15.05	Coffee break				
Chair: Ilyin Slava				Chair: Ososkov Gennady	
15.05-15.20	Furano Fabrizio (CERN IT/SDC). Dynamic federation of grid and	15.20-15.35		cl	epelyshev Yury (JINR). Application of uster analysis and autoregressive neural etworks for the noise diagnostics of the

	cloud storage.		IBR-2M reactor.
15.20-15.35	Kutovskiy Nikolay (JINR). Cloud infrastructure at JINR.	15.35-15.50	Ivashchenko Andrei (St.Petersburg State University). System of HPC content archiving.
15.35-15.50	Semenov Roman (JINR). Creating cloud storage system at JINR .	15.50-16.05	Iuzhanin Nikolai (Saint Petersburg State University). Impact of Configuration Management system of computer center on support of scientific projects throughout their lifecycle.
15.50-16.05	Balashov Nikita (JINR). Optimization of over- provisioned clouds.	16.05-16.20	Gankevich Ivan (Saint-Petersburg State University). Resource and task management tools for physics applications.
16.05-16.20	Pelevanyuk Igor (JINR). BES-III distributed computing.	16.20-16.35	Guschansky Dmitry (Saint-Petersburg State University). Social Data Collection and Processing Framework.
16.20-16.35	Boger Evgeny (JINR). Parallel computing with BEAN – BES-III Analysis Framework.		
16.35-16.50	Manoshin Sergey (JINR). Professional simulations of neutron spectrometers and experiments by VITESS software package.		
16.50-17.05	Kouzinopoulos Charalampos (CERN). Performing Track Reconstruction at the ALICE TPC using a Fast Hough Transform method.		
17.05-17.20	A.Demichev, A.Kryukov (SINP MSU). Design of Web platform for science and engineering in the model of open market		

CONFERENCE DINNER

October 2

	Computing for Large Scale Accelerator Facilities (LHC, FAIR, NICA, etc.) and Big Data
	Chair: Andreeva Julia
9.00-9.30	AI-Turany Mohammad (GSI/CERN). ALFA: Next generation concurrent framework for ALICE and FAIR experiments.
9.30-10.00	Vukotic Ilija (University of Chicago). Data analytics in the ATLAS Distributed Computing.
10.00-10.30	Klimentov Alexei (BNL). Integration Of PanDA Workload Management System With Supercomputers.
10.30-10.50	Borodin Mikhail (NRNU MEPHI, NRC KI). The Next Generation ATLAS Production System.
10.50-11.10	Coffee break
	Chair: Barberis Dario
11.10-11.40	Fuhrmann Patrick (DESY). dCache, Sync-and-Share for Big Data.
11.40-12.10	Velikhov Vasily (National Research Centre "Kurchatov Institute"). Complex for mega-science data modeling and processing.
12.10-12.40	Degtyarev Alexander (Saint-Petersburg State University). Big Data processing: test results.

LUNCH 12.40-14.00

	Workload Management Systems in Applied Research and BigData	Innovative IT Education with use of IT- technologies		
C	Chair: Klimentov Alexei		Chair: Cheremisina Evgenia	
14.00-14.20	Cheremisina Evgenia (Dubna University). New technologies of 2-D & 3-D modeling for analysis and management of natural resources.	14.00-14.20	Panebrattsev Yury (JINR). Educational Project for the STAR Experiment at RHIC.	

tskiridze Niko (Georgian hnical University). hulation Loop between CAD tems, Geant4 and oModel: Implementation I Results. Inyakov Ivan (JINR). LGD ster LNP as a basic platform tasks of the ATLAS beriment . pova Victoriya (Tomsk itechnic University). Efficient ca Management Tools for the cerogeneous Big Data rehouse. gorieva Maria (National search Centre "Kurchatov titute"). The development of orid metadata storage for nDA Workload Management tem. <i>fee break</i>		Nadezhda (Dubna university). E- learning as a technological tool to meet the requirements of professional standards in training of IT specialists Samoylenko Yury (Dubna university). Adaptive educational environment in the IT field of study reacting on changes in the labor market. Karlov Aleksandre (JINR). Virtualization in Education - Information Security lab in your pocket. Tokareva Nadezhda (Dubna university), Belov Mikhail (Dubna University), Belov Mikhail (Dubna University) and Perlyak Sergey (Dubna University). Virtual Computer Laboratory 2.0. 3D Graphics as Service. Methodological aspects of the use in research and education. <i>Klimentov Alexei, Korenkov Vladimir,</i> <i>tkov Mikhail, Kurtyka Tadeusz</i> ROUND TABLE (in Russian)
hnical University). hulation Loop between CAD tems, Geant4 and DModel: Implementation I Results. Anyakov Ivan (JINR). LGD ster LNP as a basic platform tasks of the ATLAS heriment . pova Victoriya (Tomsk itechnic University). Efficient ta Management Tools for the terogeneous Big Data rehouse. gorieva Maria (National herach Centre "Kurchatov titute"). The development of prid metadata storage for hDA Workload Management tem.	15.25-15.40	learning as a technological tool to meet the requirements of professional standards in training of IT specialists Samoylenko Yury (Dubna university). Adaptive educational environment in the IT field of study reacting on changes in the labor market. Karlov Aleksandre (JINR). Virtualization in Education - Information Security lab in your pocket. Tokareva Nadezhda (Dubna university), Belov Mikhail (Dubna University) and Perlyak Sergey (Dubna University). Virtual Computer Laboratory 2.0. 3D Graphics as Service. Methodological aspects of
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	15.10-15.25	Nadezhda (Dubna university). E-
tskiridze Niko (Georgian	15.10-15.25	
		Tyatyushkina Olga/Tokareva
		Resources.
RDMS CMS Computing.		Builder of Digital Educational
	14.55-15.10	Klygina Ksenia (JINR). Web-based
		Nuclear Reactions, JINR).
		Experiment (Flerov Laboratory of
		Laboratory of Nuclear Fission" for LIS
	14.40-14.55	Belaga Victoria (JINR). Hardware- Software Complex "Virtual
		Pologo Vistorio (UND) Hordword
erations during Run-2.		
titute: first months of		Network in Russia
titute"). Tier-1 in Kurchatov		Optimization of the Universities
	14.20-14.40	Sakharov Iurii (Dubna University). Transition to Standard 3+ and
	itute: first months of rations during Run-2. zh Tatiana (JINR). JINR TIER- entre for the CMS eriment at LHC.	earch Centre "Kurchatov itute"). Tier-1 in Kurchatov itute: first months of rations during Run-2. 2h Tatiana (JINR). JINR TIER- entre for the CMS eriment at LHC. 14.40-14.55 14.55-15.10

16.45-17.00	Favareto Andrea (University and INFN Genova). Use of the Hadoop structured storage tools for the ATLAS EventIndex event catalogue.	"Russian research, scientific and educational centers coherent and consolidated efforts in computing research and software development for mega-science
17.00-17.15		projects in HENP and other compute-intensive sciences in Russia"
17.15-17.30	Abrahamyan Suren (Saint- Petersburg State University). Collaboration and decision making tools for mobile groups.	
17.30-17.45	Parubets Valeriy (Tomsk Polytechnic University). Mathematical modeling of heterogeneous distributed data storages.	

Closing: 18:00