NEC-2015 Preliminary Program

September 28

Opening Plenary

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?**
11.00-11.20	*Coffee break*
11.20-11.50	**Kurtyka Tadeusz, Schaefer Christoph (CERN) - Collaboration of CERN with CIS and South-East-European countries.**
11.50-12.20	**Bird Ian (CERN). The evolution of the WLCG grid.**

LUNCH 12:20 – 14.00

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.**
15.00-15.20	*Coffee break*
15.20-15.40	**Paramonov Aleksandr (IBS Platformix, Moscow). Virtualization of computations - new approaches and technologies: from data storage systems to desktops.**
15.40-16.00	**Struchenko Alexey (Jet Infosystems, Moscow). The main approach to Big Data parallel processing: Oracle way.**
16.00-16.20	**Niagara – 20 min.**

Welcome Party

September 29

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

LUNCH 12.10-14.00

	Triggering, Data Acquisition, Control Systems		
14.00-14.30	Semenov Igor (Project Center ITER). Status of instrumentation and control systems delivered by Russian Federation to ITER project.		
14.30-14.50	Karetnikov Maxim (VNIIA , Moscow). Multidetector system for nanosecond tagged neutron technology.		
14.50-15.10	Tsyganov Yury (JINR). New trends in development of "Active Correlation" Technique.		
15.10-15.30	*Coffee break*		
15.30-15.50	Gorbachev Evgeny (JINR). Status of the Nuclotron and NICA control system development.	15.30-15.45	Voinov Alexey (JINR). New Analog Electronics for the New Challenges in the SHEs Synthesis .
15.50-16.05	Monakhov Dmitrii (JINR). Development of tools for real-time betatron tune measurement at Nuclotron.	15.45-16.00	Murashkevich Svetlana (JINR). DeLiDAQ-2D – a new data acquisition system for position-sensitive neutron detectors with delay-line readout.
16.05-16.20	Sedykh Georgy (JINR). The thermometry system of superconducting magnets test bench for the NICA accelerator complex .	16.00-16.15	Novoselov Aleksey (JINR). Data acquisition system for focal plane detector of mass separator MASHA –
16.20-16.35	Andreev Vasily (JINR). TANGO Standard Software for Nuclotron	16.15-16.30	Ponkin Dmitriy (JINR). ESIS KRION-6T

	Beam Slow Extraction Control		beam emittance measurement device .
16.35-16.50	Shirikov Ilyia (JINR). Low Level Radio Frequency system of NICA linac.	16.30-16.45	Zamriy Victor (JINR). Host-based data acquisition system to control pulsed facilities of the accelerator .
16.50-17.05	Filippov Ivan (JINR). DAQ software in MPD experiment NICA .	16.45-17.00	Yudin Andrey (JINR). Automatization of control channel 8 of Phasotron at DLNP of JINR.
17.00-17.15	Rogov Victor (JINR). L0 Trigger unit for BM@N setup.		
17.15-17.30	Terletskiy Andrey (JINR). Data acquisition electronics at BM@N.		
17.30-17.45	Egorov Dmitry (JINR). Slow Control system at BM@N experiment.		

Workshop "From Local File Catalog to Name space publisher + meta-catalog" : 10:00 – 18:00

September 30

	ATLAS DAQ
9.00-9.15	**Zivkovic Lidija (Institute of Physics Belgrade, Serbia). Real-time flavour tagging selection in ATLAS.**
9.15-9.30	**Sawyer Lee (Louisiana Tech University). The ATLAS Jet Trigger Software and Performance for LHC Run 2.**
9.30-9.45	**Ryan White (Universidad Técnica Federico Santa María). The Upgrade of the ATLAS Electron and Photon Triggers towards LHC Run 2 and their Performance.**
9.45 – 10.05	*Coffee break*
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
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
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*
11.10 -11. 30	Klimentov Alexei (BNL) and KRASNOPEVTSEV Dimitrii (National Research Nuclear University MEPhI). Study of ATLAS TRT performance with GRID and supercomputers.
11.30-12.00	Velikhov Vasily (National Research Centre "Kurchatov Institute"). Complex for mega-science data modeling and processing.
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)
14.00-14.15	Kundrat Jan (Institute of Physics of the AS CR and CESNET). Grids and Clouds in the Czech Republic.	Andrianov Sergei (Saint Petersburg State University). High Performance Methods of Geometrical Integration for Paradigm of Virtual Accelerator.
14.15-14.30	Modebadze Zurab (Tbilisi State University). Network and computing infrastructures for scientific applications in Georgia.	
14.30-14.45	Degteariov Nichita (RENAM). Scientific Computing Infrastructure and Services in Moldova.	Zrelov Petr (JINR) - HybriLIT : status report.
14.45-15.00	Yermolchyk Vitaly (NC PHEP BSU). Usage of cloud platform for the BY-NCPHEP Tier3 site.	
15.00-15.20	*Coffee break*	

Time		
15.20-15.35	Kutovskiy Nikolay (JINR). Cloud infrastructure at JINR.	Pepelyshev Yury (JINR). Application of cluster analysis and autoregressive neural networks for the noise diagnostics of the IBR-2M reactor.
15.35-15.50	Semenov Roman (JINR). Creating cloud storage system at JINR .	Kulabukhova Nataliia (Saint Petersburg State University). Virtual Accelerator Laboratory: the symbolic presentation for space charge fields.
15.50-16.10	Balashov Nikita (JINR). Optimization of over-provisioned clouds.	Ivashchenko Andrei (St.Petersburg State University). System of HPC content archiving.
16.10-16.25	Pelevanyuk Igor (JINR). BES-III distributed computing.	Iuzhanin Nikolai (Saint Petersburg State University). Impact of Configuration Management system of computer center on support of scientific projects throughout their lifecycle.
16.25-16.45	Zarochentsev Andrey (Saint Petersburg State University). Integration of cloud computing in grid processing schema based on example of SPSU & BITP sites.	Gankevich Ivan (Saint-Petersburg State University). Resource and task management tools for physics applications.
16.45-17.00	Boger Evgeny (JINR). Parallel computing with BEAN - BES-III Analysis Framework.	Guschansky Dmitry (Saint-Petersburg State University). Social Data Collection and Processing Framework.
17.00-17.15	Manoshin Sergey (JINR). Professional simulations of neutron spectrometers and experiments by VITESS software package.	
17.15-17.30	Kouzinopoulos Charalampos (CERN). Performing Track Reconstruction at the ALICE TPC using a Fast Hough Transform method.	
17.30-17.45	Palichik Vladimir (JINR). Hard Muon Reconstruction in the CMS Experiment.	

CONFERENCE DINNER

October 2

	Computing for Large Scale Accelerator Facilities (LHC, FAIR, NICA, etc.) and Big Data
9.00-9.30	**Al-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*
11.10-11.40	**Fuhrmann Patrick (DESY). dCache, Sync-and-Share for Big Data.**
11.40-12.10	**Duellmann Dirk (CERN). EOS - evaluating object drives and non-volatile memory.**
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
14.00-14.20	**Ryabinkin Eygene (National Research Centre "Kurchatov Institute"). Tier-1 in Kurchatov Institute: first months of operations during Run-2.**	**Panebrattsev Yury (JINR). Educational Project for the STAR Experiment at RHIC.**
14.20-14.35	**Strizh Tatiana (JINR). JINR TIER-1 Centre for the CMS Experiment at LHC.**	**Cheremisina Evgenia (Dubna University). New technologies of 2-D & 3-D modeling for analysis and management of natural resources.**

14.35-14.50	**Tikhonenko Elena (JINR). Status of RDMS CMS Computing.**	**Belaga Victoria (JINR). Hardware-Software Complex "Virtual Laboratory of Nuclear Fission" for LIS Experiment (Flerov Laboratory of Nuclear Reactions, JINR).**
14.50-15.05	**Tsutskiridze Niko (Georgian Technical University). Simulation Loop between CAD systems, Geant4 and GeoModel: Implementation and Results.**	**Klygina Ksenia (JINR). Web-based Builder of Digital Educational Resources.**
15.05-15.20	**Bednyakov Ivan (JINR). LGD cluster LNP as a basic platform for tasks of the ATLAS Experiment .**	**Tyatyushkina Olga (Dubna university). E-learning as a technological tool to meet the requirements of professional standards in training of IT specialists**
15.20-15.35	**Osipova Victoriya (Tomsk Politechnic University). Efficient Data Management Tools for the Heterogeneous Big Data Warehouse.**	**Samoylenko Yury (Dubna university). Adaptive educational environment in the IT field of study reacting on changes in the labor market.**
15.35-15.50	**Grigorieva Maria (National Research Centre "Kurchatov Institute"). The development of hybrid metadata storage for PanDA Workload Management System.**	**Karlov Aleksandre (JINR). Virtualization in Education - Information Security and Big Data labs in your pocket.**
15.50-16.10	*Coffee break*	
16.10-16.25	**Petrosyan Artem (JINR). PanDA for COMPASS at JINR.**	**Tokareva Nadezhda (Dubna university), Belov Mikhail (Dubna University) and Perlyak Sergey (Dubna University). and. Virtual Computer Laboratory 2.0. 3D Graphics as Service. Methodological aspects of the use in research and education + Demonstration - *20 min.***
16.25-16.40	**Favareto Andrea (University and INFN Genova). Use of the Hadoop structured storage tools for the ATLAS EventIndex event catalogue.**	
16.40-16.55	**Barrientos Arias Ignacio (CERN). Configuration management at CERN.**	
16.55-17.10	**Abrahamyan Suren (Saint-Petersburg State University). Collaboration and decision making**	

	tools for mobile groups.	
17.10-17.25	Gerget Olga (Tomsk Polytechnic University). Mathematical modeling of heterogeneous distributed data storages.	

Closing : 17:30