

Institute for Nuclear Research
of the Russian Academy of Sciences
Joint Institute for Nuclear Research
St. Petersburg State University
Petersburg Nuclear Physics Institute

QUARKS-2016

19th International Seminar on High Energy Physics
Pushkin, Russia, May 29 — June 4, 2016.

Preliminary program

Moscow, 2016

Sunday, May 29

Afternoon: Registration

Plenary Session. 18:00

1. Soloshenko Aleksey (JINR, Dubna)
Latest results from the 13 TeV LHC collisions from ATLAS. — 30 min.
2. Dordevic Milos (Vinca Inst.)
Recent results from CMS. — 30 min.
3. Rebbi Claudio (Boston U.)
Beyond standard model physics based on strong dynamics. — 30 min.

Monday, May 30

Plenary Session. 10:00

1. Postnov Konstantin (SAI MSU)
LIGO GW150914 binary black hole merging: standard and non-standard origin. — 30 min.
2. Rajendran Surjeet (Berkeley U.)
New Directions in Dark Matter Detection. — 30 min.
3. Kolupaeva Liudmila (JINR, Dubna)
Current results of the NOvA experiment. — 30 min.

Coffee Break.

4. Lawe Matthew David (Lancaster U.)
Recent results from the T2K experiment. — 30 min.
5. Naumov Dmitry (JINR, Dubna)
Recent results from the Daya Bay experiment — 30 min.
6. Smolnikov Anatoly (JINR, Dubna)
Double beta decay experiments and neutrino mass investigation: past, present and future. — 30 min.

Parallel Section #1 (Hall #1). 15:00

1. Chetyrkin Konstantin (KIT, Karlsruhe)
QCD running at 5 loops: current status. — 30 min.
2. Kim Victor (PNPI, Gatchina)
Manifestations of BFKL evolution at high energies. — 30 min.
3. Lee Roman (BINP, Novosibirsk)
Multiloop calculations with differential equations in ϵ -form. — 30 min.

4. Lublinsky Michael (BGU, Israel)
High energy QCD. — 30 min.
5. Mikhailov Sergey (JINR, Dubna)
On the optimization of perturbative series in QCD. — 20 min.

Coffee Break.

6. Bednyakov Alexander (JINR, Dubna)
On the four-loop strong coupling beta-function in the SM. — 20 min.
7. Galynskii Mikhail (JIPNR-Sosny, Minsk)
Alternative way to understand the unexpected results of the JLab polarization experiments to measure the Sachs form factors ratio. — 20 min.
8. Melikhov Dmitry (SINP MSU)
Two puzzles in the beauty sector of QCD. — 20 min.
9. Larin Sergey (INR, Moscow)
The mass-gap in Quantum Chromodynamics. — 20 min.
10. Pusenkov Ilya (SPbSU)
Quark masses and meson spectrum: holographic approach. — 20 min.

Parallel Section #2 (Hall #2). 15:00

1. Pivovarov Grigory (INR, Moscow)
Gell-Mann Low Equation for Nonabelian Gauge Theories — 30 min.
2. Nugaev Emin (INR, Moscow)
Q-balls in the Wick-Cutkosky Model. — 30 min.
3. Gulamov Igor (SINP MSU)
 $U(1)$ gauged Q-balls in the logarithmic potential. — 20 min.
4. Sokolov Alexander & Kudlis Andrew (SPbSU)
Universal effective coupling constants of 3D scalar ϕ^4 field theory and pseudo- ϵ expansion. — 20 min.

5. Martinovic Lubomir (JINR Dubna & SAS, Bratislava)
Quantum field theory in two dimensions: light-front versus space-like solutions. — 20 min.

Coffee Break.

6. Vereshagin Vladimir (SPbSU)
One-particle reducibility in effective theories. — 20 min.
7. Lebedev Nikita (SPbSU)
Critical behaviour of the systems with an antisymmetric tensor order parameter. — 20 min.
8. Zhokhov Roman (IHEP, Protvino)
Phase transitions in (2+1)-dimensional Gross-Neveu model with compactification in presence of external magnetic field. — 20 min.
9. Kravtsova Galina (MSU)
Non-Hermitian quantum theory with maximal mass. — 20 min.

Parallel Section #3 (Hall #3). 15:00

1. Semenov-Tian-Shansky Kirill (PNPI)
Dual parametrization of GPDs v.s. the Mellin-Barnes transform approach and manifestation of the $J = 0$ fixed pole in DVCS. — 30 min.
2. Chekhov Leonid (SMI RAS, Moscow)
Higher Hurwitz numbers and gauge theories. — 30 min.
3. Isaev Alexey (JINR, Dubna)
Bethe subalgebras in affine Birman-Murakami-Wenzl algebras and flat connections for q -KZ equations. — 30 min.
4. Mironov Andrei (ITEP, Moscow)
AdS/CFT, Chern-Simons and τ -functions. — 30 min.
5. Zenkevich Yegor (INR, Moscow & ITEP, Moscow)
Topological strings and integrable systems. — 20 min.

Coffee Break.

6. Morozov Andrey (IITP RAS)
Colored HOMLY polynomials and arborescent knots. — 30 min.
7. Bykov Dmitry (MPI, Potsdam & SMI, Moscow)
Integrable sigma-models with non-symmetric target spaces. — 30 min.
8. Akhmedova Valeriya (HSE, Moscow)
Dispersionless DKP hierarchy and elliptic Lowner equation. — 20 min.
9. Tikhanovskaya Maria (MEPHI, Moscow)
Local Quench In 1+1 Conformal Field Theory. — 20 min.
10. Starodubtsev Artem (SPbSU)
Spectrum of quantum spacetime revisited. — 20 min.

Parallel Section #4 (Hall #4). 15:00

1. Blas Diego (CERN)
New ideas in non-linear structure formation. — 30 min.
2. Gorbenko Victor (Stanford U.)
Small Weak Scale from Small Cosmological Constant. — 30 min.
3. Ivanov Mikhail (EPFL & INR)
Systematic treatment of non-linear effects in Baryon Acoustic Oscillations. — 30 min.
4. Duk Viacheslav (INR, Moscow & INFN, Perugia)
Cosmology tests in kaon decays (NA62 collaboration). — 30 min.

Coffee Break.

5. Khmelnsky Andrey (INR, Moscow)
The cosmological constant problem and NEC violating cosmologies. — 30 min.

6. Mironov Sergey (INR, Moscow)
TBA — 20 min.
7. Tokareva Anna (INR, Moscow)
Inflation with light Weyl ghost. — 20 min.
8. Balitsky Yaroslav (IHEP, Protvino)
*Inflaton as a pseudo-Goldstone boson of vacuum energy
shift symmetry.* — 20 min.
9. Novikov Oleg (SPbSU)
Pseudohermitian quantum cosmology. — 20 min.

Tuesday, May 31

Plenary Session. 10:00

1. Starobinsky Alexei (Landau Inst., Moscow)
Present status of the inflationary scenario. — 30 min.
2. Belavin Alexander (Landau Inst., Moscow)
On the exact solution $SU(N)$ models of the topological conformal fields theory. — 30 min.
3. Nekrasov Nikita (Stony Brook)
Local observables from extra dimensions. — 30 min.

Coffee Break.

4. Mirbabayi Mehrdad (IAS Princeton)
Weinberg soft theorems and cosmological consistency conditions. — 30 min.
5. Krasnikov Nikolai (INR, Moscow)
Search for light vector boson and light dark matter. NA64 experiment. — 30 min.
6. Nesti Fabrizio (RBI)
Lepton Number Violation in Higgs decays. — 30 min.

Parallel Section #1 (Hall #1). 15:00

1. Achasov Nikolay (Sobolev Inst., Novosibirsk)
Physics of the charmonium-like state $X(3872)$. — 30 min.
2. Afonin Sergey (SPbSU)
Universal description of radially excited heavy and light vector mesons. — 30 min.
3. Petrov Vladimir (IHEP, Protvino)
Hadron Diffraction: Results and Problems. — 30 min.

4. Braun Mikhail (SPbSU)
Pomeron interaction in the perturbative QCD. — 30 min.

5. Petti Roberto (U. of South Carolina)
Nuclear Effects in Deuterium and Global PDF fits. — 30 min.

Coffee Break.

6. Jenkovszky Laszlo (Bogolyubov ITP, Kiev)
Relating low- x structure functions to the rise of hadronic total cross sections. — 30 min.

7. Kozachuk Anastasia (MSU)
Rare radiative leptonic B -decays. — 20 min.

8. Kuvshinov Viacheslav (JIPNR-Sosny, Minsk)
Colour Information Lost in Vacuum. — 20 min.

9. Zuboy Roman
Quark-Antiquark Model with Dynamical Zero Mode on the Light Front. — 20 min.

10. Shaparau Valery (JIPNR-Sosny, Minsk)
Squeezed and Entangled Gluon States in QCD Jet. — 20 min.

Parallel Section #2 (Hall #2). 15:00

1. Kirsanov Mikhail (INR, Moscow)
Recent exotica results from CMS. — 30 min.

2. Gorbunov Dmitry (INR, Moscow)
New Physics beyond the 750 GeV diphoton events. — 30 min.

3. Nevzorov Roman (U. of Adelaide & ITEP)
 $E6$ inspired composite Higgs model and 750 GeV Diphoton Excess. — 30 min.

4. Romanino Andrea (SISSA)
The 750 GeV excess as a sgoldstino. — 30 min.

5. Godunov Sergey (ITEP, Moscow)
TBA — 20 min.

Coffee Break.

6. Dudko Lev (SINP)
"New Physics" search with electroweak top quark production. — 30 min.
7. Arbuzov Boris (MSU)
Non-perturbative electroweak effects at the LHC. — 30 min.
8. Petrova Elena (SINP MSU)
Post-Higgs MSSM scenarios associated with the new diphoton resonance data. — 20 min.
9. Sobolev Ivan (INR, Moscow & MSU)
Sgoldstino physics and flavor-violating Higgs boson decays. — 20 min.

Parallel Section #3 (Hall #3). 15:00

1. Akhmedov Emil (ITEP & HSE, Moscow)
On large IR loop effects in strong background fields. — 30 min.
2. Lopez Nacir Diana Laura (CERN)
Infrared effects in de Sitter space-time. — 30 min.
3. Grib Andrey & Pavlov Yuri (Herzen U.)
Properties of particles in the ergosphere of black holes. — 30 min.
4. Shnir Yakov (JINR, Dubna)
Thermodynamic properties of asymptotically AdS black holes. — 30 min.
5. Babichev Eugeny (LPT, Orsay)
Caustics in k-essence and Horndeski theory. — 30 min.

Coffee Break.

6. Koroteev Peter (Perimeter Inst.)
Studying Critical String Emerging from Non-Abelian Vortex in Four Dimensions. — 30 min.
7. Kozhevnikov Arkadii (Sobolev Inst., Novosibirsk)
Vortex dynamics in non-relativistic version of Abelian Higgs model. — 30 min.
8. Smolyakov Mikhail (SINP MSU)
Fermions in 5D brane world models. — 30 min.
9. Latosh Boris (Dubna U.)
Maeda-Dadhich solution as astrophysical black holes. — 20 min.
10. Tretyakova Daria (Ural Federal U.)
Wormholes and naked singularities in Brans-Dicke cosmology. — 20 min.

Parallel Section #4 (Hall #4). 15:00

1. Alberte Lasma (SISSA, Trieste)
Viscosity Bound Violation in Holographic Massive Gravity. — 30 min.
2. Braguta Victor (IHEP, Protvino)
Properties QCD with nonzero chirality. — 30 min.
3. Astrakhantsev Nikita (ITEP, Moscow)
Temperature dependence of QCD shear viscosity within SU(3)-gluodynamics. — 20 min.
4. Bravina Larissa (U. of Oslo)
Hydro and Jets in relativistic Heavy Ion collisions. — 30 min.
5. Kerbikov Boris (ITEP, Moscow)
Fluctuation Sound Absorption in Quark Matter. — 30 min.

Coffee Break.

6. Altsybeev Igor & Feofilov Grigory (SPbSU)
Azimuthal flow in hadron collisions from quark-gluon string repulsion. — 20 min.

7. Kotov Andrey (ITEP, Moscow)
Lattice study of two-color QCD with nonzero baryon density. — 20 min.
8. Gulitsky Nikolay (SPbSU)
Stochastic Navier-Stokes Equation with Colored Noise: Renormalization Group Analysis. — 20 min.

Wednesday, June 1

Excursion. 10:00

Parallel Section #1 (Hall #1). 15:00

1. Bezrukov Leonid (INR, Moscow)
On geoneutrino. — 30 min.
2. Polukhina Natalia (Lebedev Inst., Moscow)
Experiments of muon radiography with using emulsion track detectors. — 30 min.
3. Urban Federico (KBFI Tallinn)
The very best limits on cosmological magnetic fields. — 30 min.
4. Kisselev Alexander (IHEP, Protvino & NRC "Kurchatov Inst.")
Warped extra dimensions and inclined events at Pierre Auger Observatory. — 30 min.
5. Kuznetsov Mikhail (INR, Moscow)
Limits on UHE cosmic photons from EAS-MSU data. — 20 min.

Coffee Break.

6. Satunin Petr (INR, Moscow)
Constraining deviations from Lorentz invariance from TeV photon detection. — 20 min.
7. Grinyuk Andrey (JINR, Dubna)
Extensive Air Shower simulation and reconstruction for IACT in TAIGA. — 20 min.
8. Romanenkova Evgenia (MEPHI, Moscow)
Measuring seasonal variations in the intensity of muon bundles. — 20 min.
9. Sokolova Elena (INR, Moscow)
Search for differences between radio-loud and radio-quiet gamma-ray pulsars populations with Fermi-LAT data. — 20 min.

Parallel Section #2 (Hall #2). 15:00

1. Gromov Nikolay (King's college, London)
NNLO BFKL Pomeron eigenvalue in $N=4$ SYM. — 30 min.
2. Kazakov Dmitry (JINR, Dubna)
UV Divergences in Maximal Supersymmetric Gauge Theories. — 30 min.
3. Francia Dario (SNS, Pisa)
Cubic interactions for Maxwell-like higher spins. — 30 min.
4. Smilga Andrei (U. of Nantes)
Ultraviolet structure in non-renormalizable supersymmetric theories. — 30 min.
5. Ivanov Evgeny (JINR, Dubna)
Harmonic superspaces for $N=(1,1)$, 6D SYM theory. — 30 min.

Coffee Break.

6. Samsonov Igor (U. of Western Australia)
Features of correlation functions in three-dimensional superconformal theories. — 30 min.
7. Musaev Edvard (Albert Einstein Inst., Postdam)
Duality covariant approach to non-geometric branes. — 30 min.
8. Merzlikin Boris (TSPU, Tomsk)
Effective Kahler potential in $N=2$, $d=3$ SQED. — 20 min.
9. Blatov Alex (IMU)
Strongly coupled theory and holographic duality. — 20 min.

Parallel Section #3 (Hall #3). 15:00

1. Trincherini Enrico (INFN, Pisa)
Weakly broken galileon invariance. — 30 min.

2. Vikman Alexander (FZU, Prague)
Canonical Exorcism for Cosmological Ghosts. — 30 min.
3. Figueroa Daniel (CERN)
Originating the hot Big Bang from the Standard Model Higgs. — 30 min.
4. Rubakov Valery (INR, Moscow)
TBA — 30 min.
5. Rubtsov Grigory (INR, Moscow)
Constraining (pseudo)conformal universe and anisotropic inflation with Planck data. — 30 min.

Coffee Break.

6. Berezin Victor (INR, Moscow)
Cosmological particle creation in conformal gravity. — 30 min.
7. Koshelev Alexey (U. da Beira)
Occurrence of exact R^2 inflation in non-local UV-complete gravity. — 30 min.
8. Muller Daniel (Brazilia U.)
Quadratic Gravity and Solutions. — 30 min.
9. Toporensky Alexey (SAI MSU)
Asymptotic cosmological solutions in teleparallel gravity. — 30 min.
10. Dyadina Polina (SAI MSU)
Verification of $f(R)$ -gravity in binary pulsars. — 20 min.

Parallel Section #4 (Hall #4). 15:00

1. Stavinsky Alexey (ITEP, Moscow)
Dense cold matter. — 30 min.
2. Chudaykin Anton (INR, Moscow)
A dark matter component decaying after recombination: global fit to cosmological data. — 20 min.

3. Shabanov Arseniy (INR, Moscow)
ALICE experimental capabilities in diffractive physics. — 30 min.
4. Ostapchenko Sergey (FIAS, Frankfurt)
Constraints on high energy interaction models from LHC and cosmic ray data. — 30 min.
5. Ryadovikov Vasily (IHEP, Protvino)
Charmed particles production in pA -interactions at 70 GeV. — 20 min.

Coffee Break.

6. Belikov Jouri (IPHC)
Upgrade of the ALICE ITS: expected performance and physics program. — 20 min.
7. Ageev Dmitry (Steklov Math Inst., Moscow)
Holographic thermalization beyond two-points correlators. — 20 min.
8. Kostenko Mariia (SPbSU)
Renormalization Group approach to turbulence. — 30 min.
9. Kakin Polina (SPbSU)
Scaling in erosion of landscapes: Renormalization group analysis of a model with infinitely many couplings. — 20 min.
10. Suetin Daniil (SPbSPU)
Investigation of the influence of nuclear matter on hard neutral lepton interaction. — 20 min.

Thursday, June 2

Plenary Session. 10:00

1. Lakomov Igor (CERN)
Overview talk on recent ALICE results. — 30 min.
2. Rogachevsky Oleg (JINR, Dubna)
Physics at NICA. — 30 min.
3. Schoenning Karin (Uppsala U.)
Overview of the Physics Programme of PANDA at FAIR. — 30 min.

Coffee Break.

4. Kuehn Johann (KIT, Karlsruhe)
Determination of α_s from $e^+ e^-$ to Hadrons. — 30 min.
5. Aref'eva Irina (Steklov Math. Inst., Moscow)
Holography for heavy ions collisions. — 30 min.
6. Zakharov Valentin (ITEP, Moscow)
The long string at the stretched horizon and the entropy of large non-extremal black holes. — 30 min.

Parallel Section #1 (Hall #1). 15:00

1. Boos Eduard (SINP MSU)
Higgs-radion phenomenology in stabilized brane world models. — 30 min.
2. Villadoro Giovanni (ICTP)
The QCD Axion, Precisely. — 30 min.
3. Dorokhov Alexander (JINR, Dubna)
Status of the muon $g-2$ problem. — 30 min.

4. Arbuzov Andrey (JINR, Dubna)
Missed radiative corrections in experiments on muon $g-2$ and proton charge radius. — 20 min.

Coffee Break.

5. Savvidis Georgios (NCSR Demokritos, Athens)
Proton structure, its spin and tensor gluons. — 30 min.
6. Karshenboim Savely (Pulkovo observatory & MPQ)
Present status of the determination of the proton radius. — 30 min.
7. Krutov Alexander (Samara U.)
Poincare-invariant constituent quark model for light mesons: capabilities and constraints. — 30 min.
8. Kovalenko Vladimir (SPbSU)
Azimuthal anisotropy of long-range correlations in string fusion approach. — 30 min.
9. Vechernin Vladimir (SPbSU)
Long-range rapidity correlations between mean transverse momenta in the model with string fusion. — 20 min.

Parallel Section #2 (Hall #2). 15:00

1. Taronna Massimo (Brussels U.)
Higher-Spin Interactions from CFT. — 30 min.
2. Gelfond Olga (Lebedev Inst., Moscow)
Unfolded Form of Current Interactions of 4d Higher-Spin Fields. — 30 min.
3. Misuna Nikita (Lebedev Inst., Moscow)
Charges in nonlinear higher-spin theory. — 20 min.
4. Snegirev Timofey (Tomsk SPU & Tomsk Politechnic U.)
On massive higher-spin supermultiplets in 3D. — 20 min.
5. Zabzine Maxim (Uppsala U.)
Localization in gauge theories. — 30 min.

Coffee Break.

6. Marakulin Artur (INR, Moscow)
Supergravity with broken Lorentz invariance. — 20 min.
7. Bekaert Xavier (Tours U.)
Bulk quartic vertices from boundary four-point correlators. — 30 min.
8. Stepanyantz Konstantin (MSU)
Some aspects of $N=1$ SYM renormalization. — 30 min.
9. Khramtsov Mikhail (Steklov Math. Inst.)
Holographic prescription for multiconnected spaces. — 20 min.

Parallel Section #3 (Hall #3). 15:00

1. Verkhodanov Oleg (SAO RAS)
To the problem of the secondary CMB anisotropy separation. — 30 min.
2. Barvinsky Andrei (Lebedev Inst.)
Conformal higher spin fields in cosmology and a new type of hill top inflation. — 30 min.
3. Tetradis Nikolaos (U. of Athens)
Viscous dark matter. — 30 min.
4. Arbuzova Elena (Dubna U. & NSU, Novosibirsk)
Kinetics of spontaneous baryogenesis in non-stationary background. — 30 min.
5. Ramazanov Sabir (GSSI)
Living with ghosts in Horava-Ligshitz gravity. — 20 min.

Coffee Break.

6. Dolgoplov Mikhail (SSAU, Samara)
Finite-temperature Higgs potentials. — 30 min.

7. Vernov Sergey (SINP MSU)
Integrable cosmological model with non-minimal coupling and bounce solutions. — 20 min.
8. Nikiforova Vasilisa (INR, Moscow)
One model of modified gravity. — 20 min.

Parallel Section #4 (Hall #4). 15:00

1. Pankov Alexander (Tech. Univ. of Gomel)
Precise determination of $Z - Z'$ mixing in W boson pair production at the LHC. — 20 min.
2. Timiryasov Inar (INR, Moscow)
Dark matter at the SHIP experiment. — 20 min.
3. Astapov Konstantin (INR, Moscow)
Signal rate estimates for sgoldstinos in the SHiP. — 20 min.
4. Tliso Danila (INR, Moscow)
Possibility of Space Anisotropy search at Colliders. — 20 min.

Coffee Break.

5. Kataev Andrey (INR, Moscow)
Operator product expansion to AVV triangle amplitude in QCD and QED and the manifestation of the conformal symmetry and its perturbative breaking effects : the new results at the current stage of investigations. — 30 min.
6. Czarnecki Andrzej (U. of Alberta)
Properties of bound electrons and muons. — 30 min.
7. Penin Alexander (U. of Alberta)
High-energy Limit of QED beyond Sudakov Approximation. — 30 min.
8. Biryukov Alexander & Shleenkov Mark (SSAU, Samara)
The Feynman-Vernon Influence Functional Approach in QED. — 20 min.

9. Kiselev Alexey (Sobolev Ins. for Math. & NSU)
Transition formfactors $\gamma^ \rightarrow \gamma f_2(1270)$ and $\gamma^* \rightarrow \gamma a_2(1320)$ in the e^+e^- collisions.*

— 20 min.

Conference dinner. 20:00

Friday, June 3

Plenary Session. 10:00

1. Vazquez Gomez Ricardo (Laboratori Nazionali di Frascati)
Overview of LHCb Results. — 30 min.
2. Liventsev Dmitri (Virginia Tech. & KEK)
Recent Results from Belle. — 30 min.
3. Pakhlov Pavel (Lebedev Inst. & MEPHI)
Flavor physics at Super B factories. — 30 min.

Coffee Break.

4. Sagnotti Augusto (Scuola Normale Superiore)
On some generalizations of Born-Infeld Theory. — 30 min.
5. Kaplan David (Johns Hopkins U.)
Cosmological Relaxation of the Electroweak Scale. — 30 min.
6. Andrianov Alexander (SPbSU)
Chiral Imbalance in QCD and its consequences. — 30 min.

Parallel Section #1 (Hall #1). 15:00

1. Levkov Dmitry (INR, Moscow)
High-energy limit of collision-induced tunneling. — 30 min.
2. Shkerin Andrey (EPFL)
On black hole induced false vacuum decay. — 20 min.
3. Zaslavsky Oleg (Kharkov U.)
High energy particle collisions near black holes. — 20 min.

4. Marachevsky Valery (SPbSU)
The Casimir-Polder potential: exact and asymptotic results. — 30 min.
5. Pismak Yury (SPbSU)
Bound states in a model of interaction of Dirac field with material plane. — 30 min.

Coffee Break.

6. Kompaniets Mikhail (SPbSU)
Multiloop calculations with hyperlogarithms (HyperInt): Six loop approximation in φ^4 model. — 30 min.
7. Fitkevich Maxim (INR & MIPT, Moscow)
TBA — 20 min.
8. Gubina Nadezhda (MSU)
Vacuum polarization in the model of Dirac fermions with anomalous magnetic moment interacting with background axial-vector condensate and magnetic field. — 20 min.
9. Radovskaya Anna (Lebedev Inst.)
Applicability of the Wigner functional approach to an evolution of quantum fields. — 20 min.
10. Lobanov Andrey (MSU)
How to construct a consistent and physically relevant Fock space of neutrino flavor states? — 20 min.

Parallel Section #2 (Hall #2). 15:00

1. Kirpichnikov Dmitry (INR, Moscow)
Split NMSMM after LHC 8. — 20 min.
2. Gurskaya Albina (SSAU, Samara)
The Higgs bosons decays in the NMSSM scenarios with CP-violation. — 20 min.
3. Pikelner Andrey (JINR, Dubna)
Stability of the Electroweak Vacuum: Gauge Independence and Advanced Precision. — 30 min.

4. Bezrukov Fedor (U. of Connecticut)
TBA — 30 min.

Coffee Break.

5. Polyarush Alexander (INR, Moscow)
Study of radiative kaon decay $K \rightarrow e\nu\pi^0\gamma$ using OKA detector. — 30 min.
6. Sapronov Andrey (JINR, Dubna)
xFitter project. — 30 min.
7. Kulagin Sergey (INR, Moscow)
Understanding neutrino cross sections for nuclear targets. — 30 min.
8. Alikhanov Ibragim (INR)
Resonant neutrino scattering on nuclei. — 20 min.

Parallel Section #3 (Hall #3). 15:00

1. Studenikin Alexander (MSU, JINR)
Electromagnetic properties of massive neutrinos. — 30 min.
2. Tinyakov Peter (ULB)
A signature of EeV protons of Galactic origin. — 30 min.
3. Pshirkov Maxim (SAI MSU)
Fermi bubbles around the M31 galaxy. — 30 min.
4. Kalashev Oleg (INR, Moscow)
Constraining Dark Matter and Ultra-High Energy Cosmic Ray Sources with Fermi Diffuse Gamma Ray Background. — 30 min.
5. Zhezher Yana (INR, Moscow)
Spatial structure of the WMAP/Planck haze — 20 min.

Coffee Break.

6. Gorsky Alexander (IPPI, Moscow)
Some properties of the QCD and SQCD vacuum in the external fields. — 30 min.
7. Rumyantsev Dmitry (Yaroslavl State U.)
Photon splitting in a strongly magnetized charge asymmetric plasma. — 30 min.
8. Ptitsina Ksenia (INR, Moscow)
Gaps in black holes magnetospheres — 30 min.
9. Panin Alexander (INR, Moscow)
Relativistic axions from collapsing Bose stars. — 20 min.
10. Dvornikov Maxim (IZMIRAN, Tomsk State University)
Parity violating interaction and generation of magnetic fields in magnetars. — 30 min.

Parallel Section #4 (Hall #4). 15:00

1. Shevchenko Vladimir (NRC Kurchatov Inst.)
On a bound on quantum measurements precision. — 30 min.
2. Vassilevich Dmitri (SPbSU)
Quantum field theory in graphene. — 30 min.
3. Poppitz Erich (U. of Toronto)
The curious case of multi-instantons and the necessity of Lefschetz thimbles. — 30 min.
4. Dudas Emilian (Ecole Polytechnique, Palaiseau)
Nilpotent supergravity and applications to inflation. — 30 min.
5. Sotiriou Thomas (U. of Nottingham)
Lorentz violations, causality, and black holes. — 30 min.

Coffee Break.

6. Sibiryakov Sergey (CERN & EPFL & INR)
Towards UV-complete theory of gravity in four dimensions. — 30 min.

7. Kharuk Ivan (INR, Moscow)
Emergent Lorentz invariance with chiral fermions. — 20 min.
8. Pozdeeva Ekaterina (SINP MSU)
Inflationary scenarios from RG-improved models, cosmological attractor. — 20 min.
9. Smirnov Alexey (INR)
Traversable intra-inverse wormholes in General Relativity — 20 min.

Saturday, June 4

Plenary Session. 10:00

1. Vasiliev Mikhail (Lebedev Inst., Moscow)
Current interactions and holography from nonlinear higher-spin equations. — 30 min.
2. Lipatov Lev (PNPI, Gatchina)
Euler-Lagrange equations for high energy actions in QCD and in gravity. — 30 min.
3. Tseytlin Arkady (Imperial College & Lebedev Inst. Moscow)
Quantum corrections in higher spin theory. — 30 min.

Coffee Break. 11:30 – 11:50

4. Nesvizhevsky Valery (ILL, Grenoble)
Results of recent neutron lifetime measurement. — 30 min.
5. Ospanov Rustem (Manchester U.)
ATLAS review of the Higgs boson properties. — 30 min.
6. Zakharov Aleksander (ITEP, Moscow)
Trajectories of bright stars at the Galactic Center as a tool to evaluate graviton mass. — 30 min.
7. *Closing*