

**EIGHTEENTH LOMONOSOV CONFERENCE ON
ELEMENTARY PARTICLE PHYSICS**

**TWELFTH INTERNATIONAL MEETING ON
PROBLEMS OF INTELLIGENTSIA:
"The Future of the Intelligentsia"**

Moscow State University, Moscow, 24 – 30 August, 2017

**Under the Patronage of the Rector
of Moscow State University
Victor Sadovnichy**

**Dedicated to the 25th Anniversary of
Lomonosov Conferences**

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Programme of the 18th Lomonosov Conference on Elementary Particle Physics
/duration of 25 (20/15) min talks includes 5 (3) minutes for discussion/

24 August, Thursday

08.00 – 09.00 **Registration** (Hall in front of Central Physics Auditorium, Faculty of Physics, Moscow State University)

09.00 – 09.30 **Opening** (Conference Hall)

Chair: Alexander Studenikin, Chairman of Organizing Committee, MSU & JINR

Grigory Trubnikov, Vice Minister, Ministry of Education and Science of Russia

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Andrey Slavnov, Head of Department of Theoretical Physics of MSU

09.30 – 13.20 **MORNING SESSION** (Conference Hall)

09.30 M. Giammarchi (INFN, Milan) *The Lomonosov Conference and physics in the last 25 years* (25 min)

09.55 S. Kostromin (JINR) *NICA accelerator complex* (20 min)

10.15 F. Djama (CPPM Marseille) *Overview of the ATLAS experiment at the LHC* (25 min)

10.40 S. Swain (National Institute of Science Education and Research) *CMS highlight overview* (25 min)

11.05 – 11.40 Tea break

11.40 E. Coccia (GSSI & INFN) *The detection of gravitational waves: 50 years of experimental efforts* (25 min)

12.05 S. Goswami (Physical Research Laboratory, India) *Neutrino phenomenology* (25 min)

12.30 C. Ott (CalTech) *Core-collapse supernova mechanisms* (25 min)

12.55 K. Long (Imperial College London) *Accelerator-based neutrino physics; past, present and future* (25 min)

13.20 – 15.00 Lunch

15.00 – 18.30 **AFTERNOON SESSION** (Conference Hall)

15.00 V. Berezhinsky (GSSI) *Protons in UHECR* (25 min)

15.25 P. Serpico (LAPTh) *Entering the cosmic ray astrophysics precision era* (25 min)

15.50 I. Maris (Univ. Libre de Bruxelles) *Results from the Pierre Auger Observatory* (25 min)

16.15 – 16.45 Tea break

16.45 I. Bozovic Jelisavcic (Univ. of Belgrade) *Physics at the Compact Linear Collider (CLIC)* (25 min)

17.10 B. Gavela (Univ. Autonoma de Madrid) *On axions and ALPs* (25 min)

17.35 A. Starobinsky (Landau Inst.) *Recent developments in the inflationary scenario* (25 min)

18.00 S. Mihara (KEK) *Muon particle physics program at J-PARC* (20 min)

18.30 – 23.30 **SPECIAL SESSION** (40⁰)

Reception banquet will be held on board of a ship that will stream along the river across the central part of Moscow; the conference buses to the ship will depart from the entrance of the Faculty of Physics at **18.30**

25 August, Friday

09.00 – 13.35 MORNING SESSION (Conference Hall)

09.00 **M. Ackermann** (DESY) *Astrophysics and particle physics with IceCube neutrinos* (25 min)

09.25 **S.-H. Seo** (Seoul Nat. Univ.) *New Results from RENO & future prospects with T2HK* (25 min)

09.50 **M. Smy** (Univ. of California, Irvine) *T2K neutrino oscillation results and constraints on delta CP* (25 min)

10.15 **C. Hagedorn** (Univ. of Southern Denmark) *Leptonic CP violation* (25 min)

10.40 **L. Ludhova** (Forschungszentrum Jülich) *Low energy neutrino physics with liquid scintillator detectors* (25 min)

11.05 – 11.30 Tea break

11.30 **M. Yokoyama** (Univ. of Tokyo) *Hyper-Kamiokande* (25 min)

11.55 **A. Kouchner** (Univ. Paris Diderot - Laboratoire APC) *High-energy neutrino searches in the Mediterranean Sea* (25 min)

12.20 **A.G. Cocco** (INFN, Naples) *Relic neutrino detection* (25 min)

12.45 **A. Guglielmi** (INFN, Padua) *ICARUS: from CNGS to Booster beam* (25 min)

13.10 **J. Evans** (Univ. of Manchester) *The DUNE experiment* (25 min)

13.35 – 15.00 Lunch

15.00 – 19.10 AFTERNOON SESSION (Conference Hall)

15.00 **I. Drachnev** (PINP, Gatchina) *Review on solar neutrino studies with Borexino* (20 min)

15.20 **Y. Li** (IHEP, Chinese Academy of Sciences) *Status of light sterile neutrinos* (20 min)

15.40 **S. Zhou** (IHEP, Chinese Academy of Sciences) *Neutrino mass ordering and neutrinoless double-beta decays* (20 min)

16.00 **M. Yoshimura** (Okayama Univ.) *Neutrino mass spectroscopy* (25 min)

16.25 **Zh. Xu** (BNL/SDU) *Recent Results from STAR at RHIC* (25 min)

16.50 – 17.20 Tea break

SESSION 25.08. A (Neutrinos)

17.20 **S. Nasri** (United Arab Emirates Univ.) *Neutrino Mass, Dark Matter, and Baryon Asymmetry of the Universe* (20 min)

17.40 **M. Gromov** (SINP MSU) *The SOX project* (20 min)

18.00 **D. Chiesa** (Univ. & INFN Milano-Bicocca) *The CUORE experiment at LNGS* (20 min)

18.20 **M. Ghosh** (Tokyo Metropolitan Univ.) *Sensitivity of the T2HK experiment to the non-standard interactions* (15 min)

18.35 **S. Gariazzo** (IFIC-CSIC & Univ. de Valencia) *Neutrino clustering in the Milky Way* (15 min)

18.50 **S. Qian** (IHEP Chinese Academy of Sciences) *The R&D of the large area MCP-PMT for the neutrino Experiments* (20 min)

SESSION 25.08. B (Physics at Colliders)

17.20 **U. Schneekloth** (DESY) *Electroweak fits to HERA data* (20 min)

17.40 **D. Boumediene** (CNRS/LPC) *Higgs precision measurements with ATLAS* (15 min)

17.55 **S. Kiselev** (ITEP) *Hadronic resonance production with ALICE at the LHC* (20 min)

18.05 **O. Zenaiev** (DESY) *xFitter* (15 min)

18.20 **N. Sasao** (Okayama Univ.) *Intense gamma radiation by accelerated quantum ions* (20 min)

18.40 **M. Ronzani** (CERN) *Searches for supersymmetry with the ATLAS detector* (15 min)

SESSION 25.08. C (Gravitation, cosmology, astrophysics)

17.20 V. Berezin (INR RAS) *Conformal invariance and phenomenology of cosmological particle production* (20 min)

17.40 E. Alvarez (Univ. Autonoma de Madrid) *Weyl invariant, first order quadratic gravity* (20 min)

18.00 V. Dokuchaev (INR RAS) *Global geometry of the Vaidya space-time* (20 min)

18.20 E. Pozdeeva (MSU) *Cosmological attractors in multifield inflation* (15 min)

19.30 – 22.30 Sight-seeing bus excursion in Moscow

26 August, Saturday

09.00 – 13.30 MORNING SESSION (Conference Hall)

09.00 I. Bilenko (MSU) *LIGO project: status, results and future* (25 min)

09.25 R. Ciolfi (INAF, Padua) *Gravitational wave sources and multimessenger astronomy* (25 min)

09.50 P. Spillantini (INAF) *Direct measurements of cosmic rays* (25 min)

10.15 R. Sparvoli (Univ. of Rome Tor Vergata) *The CSES/Limadou mission* (20 min)

10.35 M. Panasyuk (SINP MSU) *Astrophysical space observatory "Lomonosov": the first results* (25 min)

11.00 – 11.30 Tea break

11.30 V. Choutko (MIT) *Latest AMS results on high energy cosmic ray measurements* (25 min)

11.55 Y. Srivastava (Northeastern Univ.) *Critical indices and limits on space-time dimensions from cosmic rays* (20 min)

12.15 P. Salucci (SISSA) *The distribution of dark matter in galaxies and its nature* (25 min)

12.40 R. Bernabei (Univ. of Rome Tor Vergata) *Recent results and perspectives of DAMA/LIBRA* (25 min)

13.05 A. Drukier (Stockholm Univ.) *Ultimate dark-matter detection* (25 min)

13.30 – 15.00 Lunch

15.00 – 18.25 AFTERNOON SESSION (Conference Hall)

15.00 Ch. Tunnell (Univ. of Chicago) *First results from the XENONIT Experiment* (20 min)

15.20 J. Sola (Univ. de Barcelona) *Current state of dynamical dark energy versus observations* (25 min)

15.45 T. Kobayashi (SISSA) *Spontaneous Baryogenesis and Geometric Baryogenesis* (25 min)

16.10 C. Kouvaris (Univ. of Southern Denmark) *Probing light dark matter* (25 min)

16.35 – 17.00 Tea break

17.00 R. Rangarajan (Physical Research Laboratory, India) *Current status of warm inflation* (25 min)

17.25 L. Yang (Tsinghua Univ.) *Recent status of CDEX and CJPL* (20 min)

17.45 B. Capdevila (Institut de Física d'Altes Energies, Barcelona) *Patterns of New Physics in $b \rightarrow sl^+l^-$ transitions in the light of recent data* (20 min)

18.05 M. Kirsanov (INR RAS) *Search for dark sector physics in missing energy events with NA64* (20 min)

27 August, Sunday

9.00 – 19.00 Bus excursion to Sergiev Posad

28 August, Monday

09.00 – 13.35 MORNING SESSION (Conference Hall)

09.00 **T. Matsuo** (TOHO Univ.) *Results from the OPERA experiment* (20 min)

09.20 **T. Nakadaira** (KEK) *Future J-PARC neutrino beam upgrade and T2K-II experiment* (20 min)

09.40 **K.T. Knoepfle** (Max Planck Institute, Heidelberg) *Status and prospects of the search for neutrinoless double beta decay of Ge-76* (25 min)

10.05 **D. Zaborov** (CPPM, Marseille) *The KM3NeT neutrino telescope and the potential of a neutrino beam from Russia to the Mediterranean Sea* (25 min)

10.30 **J. Xu** (IHEP of Chinese Academy of Sciences) *Recent results from Daya Bay* (20 min)

10.50 **C. Vayenas** (Univ. of Patras) *Gravitationally confined relativistic neutrinos* (25 min)

11.15 – 11.50 Tea break

11.50 **J. Zalesak** (Institute of Physics, Czech Academy of Sciences) *Recent results from the NOvA Experiment* (25 min)

12.15 **G. Salamanna** (Roma Tre Univ.) *Status and physics potential of the JUNO experiment* (20 min)

12.35 **T. Matsubara** (Tokyo Metropolitan Univ.) *Recent results from Double Chooz reactor neutrino experiment* (20 min)

12.55 **V. Belov** (ITEP, Kurchatov Institute) *From EXO-200 to nEXO* (20 min)

13.15 **A. Kononov** (ITEP, Kurchatov Institute) *Observation of coherent elastic neutrino-nucleus scattering at SNS* (20 min)

13.35 – 15.00 Lunch

15.00 – 19.00 AFTERNOON SESSION (Conference Hall)

SESSION 28.08. A (Neutrinos)

15.00 **Z. Zhao** (Liaoning Normal Univ.) *Breakings of the neutrino reflection symmetry* (20 min)

15.20 **L.V. Maret** (Univ. of Geneva) *Cross-section measurements in the T2K experiment* (20 min)

15.40 **M. Rebelo** (Univ. of Lisbon) *Neutrino physics and leptonic weak basis invariants* (25 min)

16.05 **R. Soualah** (Univ. of Sharjah) *Probing the majorana neutrinos nature at actual and future colliders* (15 min)

16.20 **A. Esmaili Taklimi** (Pontificia Univ. Catholica do Rio de Janeiro) *High energy neutrinos and dark matter* (20 min)

SESSION 28.08. B (BSM, Theory)

15.00 **A. Nesterenko** (JINR) *Dispersive approach to QCD and its applications* (20 min)

15.20 **M. Butenschoen** (Univ. of Hamburg) *Theory of heavy quarkonium production* (20 min)

15.40 **V. Kopeliovich** (INR RAS) *Rescaling of quantized skyrmions: from nucleon to baryons with heavy flavor* (20 min)

16.00 **R. Sultanov** (St. Cloud State Univ.) *Influence of the $\bar{p} - p$ nuclear interaction on the rate of the low-energy $\bar{p} + H_{\mu} \rightarrow (\bar{p}p)_{\alpha} + \mu^{-}$ reaction* (20 min)

16.20 **Y. Srivastava** (Northeastern Univ.) *Low energy nuclear reactions in normal and exploding batteries* (20 min)

SESSION 28.08. C (Physics at Colliders)

15.00 **O. Zenaiev** (DESY) *Latest tests of hard QCD at HERA* (25 min)

15.25 **M. Tokarev** (JINR) *Fractality of strange particle production in pp collisions at RHIC* (20 min)

15.45 **S. Poslavsky** (IHEP, Provtino) *PANDA physics* (20 min)

16.05 **F. Fabbri** (INFN, Bologna) *Top pair and single top production in ATLAS* (20 min)

SESSION 28.08. D

(Dark matter searches)

15.00 P. Czodrowski (CERN) *Constraining dark matter with ATLAS* (20 min)**15.20 V. Caracciolo** (LNGS, INFN) *The ADAMO project and developments* (20 min)**15.40 N. Ferreiro Iachellini** (Max Planck Inst. for Physics, Munich) *Light dark matter search with CRESST-III* (20 min)**16.00 A. Alexandrov** (INFN, Naples) *Directional detection of dark matter with a nuclear emulsion based detector* (20 min)**16.20 V. Solovov** (LIP) *LUX Dark Matter Experiment: the latest results* (20 min)**16.40 - 17.10**

Tee break

SESSION 28.08. E

(Neutrinos)

17.10 V. Semikoz (IZMIRAN, Troitsk) *Non-conservation of the lepton current and asymmetry of relic neutrinos* (20 min)**17.30 Ch. Das** (JINR) *Effects of BSMs on θ_{23} determination* (15 min)**17.45 T. Karkkainen** (Univ. of Helsinki) *Constraining the nonstandard interaction parameters in long baseline neutrino experiments* (15 min)**18.00 A. Borisov & P. Sizin** (NUST MISiS) *Nonstandard neutrino interactions in a dense magnetized medium* (15 min)**18.15 S. Mayburov** (Lebedev Institute of Physics) *Search for periodical variations of Fe-55 nuclide weak decay parameters* (15 min)

SESSION 28.08. F

(Theory: cosmic rays, cosmology)

17.10 V. Belokurov (MSU) *Evolution of the Universe caused by the averaged potential of the quantum scalar field* (15 min)**17.25 M. Dvornikov** (IZMIRAN, Troitsk & Tomsk State Univ.) *Chiral magnetic effect and the generation of astrophysical magnetic fields* (15 min)**17.40 W. Chang** (National Tsinghua Univ.) *Making case for the singlet majoronic dark radiation* (20 min)**18.00 O. Antipin** (Institut Rudjer Boskovic) *Revisiting the decoupling effects in the running of the Cosmological Constant* (15 min)**18.15 O. Zenaiev** (DESY) *Astrophysical applications of PROSA PDFs* (20 min)**18.35 E.J. Chun** (Korea Institute for Advanced Study) *Baryogenesis and n - \bar{n} oscillation from R -parity violation (neutron-antineutron oscillations)* (20 min)**18.55 V. Rodionov** (REU, Moscow) *Use of pseudo-Hermitian models in promising researches the possible structure of dark matter* (20 min)

SESSION 28.08. G

(Hadronic, Theory)

17.10 A. Issadykov (JINR) *The study of b - s anomaly decays in covariant quark model* (15 min)**17.25 A. Kataev** (INR RAS) *The generalized Crewther relation in $SU(N_c)$: the current status of investigations* (15 min)**17.40 M. Fil'chenkov** (Peoples' Friendship Univ. of Russia) *Quantum field theory effects on the horizons of static metrics* (20 min)**18.00 Yu. Grats** (MSU), **P.A. Spirin** (MSU) *Vacuum polarization in cosmic-string and global-monopole backgrounds* (20 min)**18.20 A. Garat** (Univ. de la Republica, Montevideo) *New tetrads in Riemannian geometry and new ensuing results in group theory, gauge theory and fundamental physics, in particle physics, general relativity and astrophysics* (20 min)

17.10 E. Soldatov (NRNU MEPhI) *Electroweak precision measurements in ATLAS* (15 min)

17.25 S. Poslavsky (IHEP, Provtino) *Heavy quarkonia production at LHC* (15 min)

17.40 F. Prokoshin (Univ. Tecnica Federico Santa Maria, Chile) *Searches for rare and exotic Higgs decays with ATLAS* (15 min)

17.55 A. Krutenkova (ITEP, Kurchatov Institute) *Production of nuclear fragments in the $^{12}\text{C}+^7\text{Be}$ collisions at intermediate energies* (15 min)

18.10 A. Gridin (JINR) *Search for exotic charmonium-like states at COMPASS* (20 min)

29 August, Tuesday

09.00 – 13.30 MORNING SESSION (Conference Hall)

09.00 S. Pokorski (Univ. of Warsaw) *Naturalness* (25 min)

09.25 D. Jeans (KEK) *The International Linear Collider project* (25 min)

09.50 P. Fermani (LNF, INFN) *Status of the KLOE-2 experiment at DAFNE* (25 min)

10.15 A. Taranenko (Moscow Phys. Eng. Inst.) *Recent results from PHENIX experiment at RHIC* (25 min)

10.40 X. Shi (IHEP of Chinese Academy of Sciences) *Overview of the CEPC Project* (20 min)

11.00 – 11.30 Tea break

11.30 P. Lewis (Univ. of Hawaii) *The Belle II/SuperKEKB project* (25 min)

11.55 S. Levonian (DESY) *Recent results on diffraction at HERA* (20 min)

12.15 E. Bossini (CERN & INFN, Pisa) *The TOTEM experiment: Results and perspectives* (25 min)

12.40 I. Selyuzhenkov (MEPhI) *Recent ALICE highlights* (25 min)

13.05 U. Schneekloth (DESY) *The OLYMPUS experiment - hard two-photon contribution to elastic lepton-proton scattering* (20 min)

13.30 – 15.00 Lunch

15.00 – 19.00 AFTERNOON SESSION (Conference Hall)

15.00 S. Denisov (IHEP, Protvino) *Review of the Tevatron results* (25 min)

15.25 R. Fantechi (INFN, Pisa & CERN) *Review of NA62 and NA48 physics results* (25 min)

15.50 W. Gohn (Univ. of Kentucky) *The Muon g-2 Experiment at Fermilab* (20 min)

16.10 T. Mibe (KEK) *J-PARC muon g-2/EDM experiment* (20 min)

16.30 S. Serednyakov (INP-Novosibirsk) *Recent measurements of exclusive hadronic cross sections at BABAR and the implication for the muon g-2 calculation* (20 min)

16.50 A. Dzyuba (Petersburg Nuclear Physics Institute) *Charm physics at LHCb* (20 min)

17.10 – 17.40 Tea break

SESSION 29.08. A (Neutrinos)

17.40 A. Segarra (IFIC-Valencia) *The coherent weak charge of matter* (15 min)

17.55 D. Grigoriou (Univ. of Patras) *Comparison of the special relativistic and of the Schwarzschild geodesics treatments of the formation of bound rotational neutrino states stabilized via the uncertainty principle* (15 min)

18.10 N. Agafonova (INR RAS) *Search for supernova neutrino bursts with the LVD experiment* (15 min)

18.25 O. Kharlanov (MSU) *Signatures of neutrino magnetic moment in collective oscillations of supernova neutrinos* (15 min)

18.40 S. Demidov (INR RAS) *Influence of NSI on neutrino signal from dark matter annihilations in the Sun* (15 min)

18.55 S. Luchuk (INR RAS) *Study of the ν_μ charged-current quasi-elastic-like interactions in the NOvA near detector* (10 min)

SESSION 29.08. B (Colliders)

17.40 P. Parfenov (MEPhI) *Azimuthal anisotropic flow performance for MPD experiment at NICA* (15 min)

17.55 A. Polyarush (INR RAS) *Study of $K^+ \rightarrow \pi^0 e^+ \nu$ γ -decay with OKA setup* (15 min)

18.05 N. Ermakov (MEPhI) *Transverse mass dependence of kaon Bose-Einstein correlations in p+p collisions at energy $\sqrt{s} = 200$ and 510 GeV with STAR* (15 min)

SESSION 29.08. C (Theory)

17.40 A. Kulikova (Tomsk State Univ.) *Relativistic radiation theory with Hertz tensor fields* (15 min)

17.55 T. Adorno (Tomsk State Univ.) *Preliminary aspects of switching-on and -off effects on vacuum instability* (15 min)

18.10 A. Shitova (Yaroslavl State Univ.) *A decay of an ultra-high energy neutrino $\nu_e \rightarrow e^- W^+$ in an extremely high magnetic field* (15 min)

18.25 V. Shakhmanov (MSU) *The three-loop contribution to beta-function quartic in the Yukawa couplings for the $N=1$ supersymmetric Yang-Mills theory with the higher covariant derivative regularization* (15 min)

SESSION 29.08. D (Astrophysics, cosmic rays)

17.40 N. Tomassetti (Univ. of Perugia & INFN) *Results from the AMS experiment on low-energy cosmic rays: time-dependence of cosmic-ray fluxes and solar modulation* (20 min)

18.00 Y. Zhezher (INR RAS) *Chemical composition of ultra-high energy cosmic rays from the Telescope Array experiment surface detector data* (15 min)

18.15 G. Bigongiari (INFN, Pisa) *Calocube: a novel approach for a homogeneous calorimeter for high-energy cosmic rays detection in space* (20 min)

18.35 Y. Khyzhniak (MEPhI) *Measurement of cosmic rays in the STAR experiment* (15 min)

30 August, Wednesday

09.00 – 12.55 MORNING SESSION (Conference Hall)

09.00 P. Lukin (Budker Inst. of Nuclear Physics and Novosibirsk State Univ.) *Overview of the CMD-3 recent results at $e+e$ collider VEPP-2000* (20 min)

09.20 K. Suzuki (Nagoya Univ.) *Belle II Physics Prospects* (25 min)

09.45 Min-Zu Wang (National Taiwan Univ.) *Recent results of rare B/D decays from Belle* (20 min)

10.05 K. Ieki (Univ. of Tokyo) *Search of cLFV processes with muons and others* (25 min)

10.30 – 11.00 Tea break

11.00 G. Gratta (Stanford Univ.) *Tests of gravity at very large and very short distance* (25 min)

11.25 A. Dolgov (Novosibirsk State Univ. & ITEP Kurchatov Institute) *New problems in cosmology and primordial black holes* (25 min)

11.50 E. Arbuzova (Dubna State Univ. and Novosibirsk State Univ.) *Problems of spontaneous and gravitational baryogenesis* (20 min)

12.10 A. Taketa (Univ. of Tokyo) *Geophysics using neutrino oscillations* (20 min)

12.30 M. Shirchenko (JINR, Dubna) *Status and recent results of the MAJORANA DEMONSTRATOR* (20 min)

12.50 M. Knecht (CNRS) *Theoretical aspects of the anomalous magnetic moment of the charged leptons* (20 min)

13.10 – 14.30 Lunch

ROUND TABLE DISCUSSION
"Frontiers in Particle Physics"
(Conference Hall)

14.30 G. Chiarelli (INFN, Pisa) *Legacy measurements at the Tevatron* (25 min)

14.55 J. Pinfold (Univ. of Alberta) *The MoEDAL Experiment at the LHC - a new light on the high energy frontier* (25 min)

15.20 M. Malek (Univ. of Sheffield) *Neutrinos and cosmology* (25 min)

15.45 L. Stanco (INFN, Padua) *Neutrino mass hierarchy from oscillation* (25 min)

16.10 M. Smy (Univ. of California, Irvine) *Future Prospects of Solar Neutrino Measurements* (25 min)

16.35 – 17.00 Tea break

17.00 S. Popov (MSU) *Fast radio bursts: new exotic puzzle in astrophysics* (20 min)

17.20 D. Prokhorov (Wits Univ.) *The spectrum of the core of Centaurus A with H.E.S.S. and Fermi-LAT* (20 min)

17.40 G. Marsella (Univ. of Salento) *Recent Results from the DAMPE experiment* (20 min)

18.00 V. Petrov (IHEP, Protvino) *QUO VADIS? Strong Interactions at High Energies in Historical Perspective* (25 min)

TWELFTH INTERNATIONAL MEETING ON
PROBLEMS OF INTELLIGENTSIA:
"The Future of the Intelligentsia "
(Conference Hall)

Chairman: Alexander Studenikin

18.30 J. Bleimaier (Princeton) *The future of the intelligentsia* (25 min)

Closing of the 18^h Lomonosov Conference on Elementary Particle Physics
and the 12th International Meeting on Problems of Intelligentsia

SPECIAL SESSION (40⁰)

POSTER SESSION

N. Tomassetti (Univ. of Perugia & INFN) *Astrophysical background for dark matter search with cosmic-ray antinuclei*

N. Tomassetti (Univ. of Perugia & INFN) *Predicting solar modulation of cosmic-ray particles and antiparticles in the Heliosphere*

V. Koryukin (Mari State Univ) *On the role of quantum chromodynamics in the theory of the Universe matter evolution*

M. Organokov (Institut Pluridisciplinaire Hubert CURIEN) *Neutrino entanglement with magnetic field*

J. Gornaya (MEPhI) *Analysis of flow in the experiment NA49*

O. Golosov (MEPhI) *Analysis of anisotropic transverse flow in Pb-Pb collisions at 40A GeV in the NA49 experiment at CERN SPS using Qn-Corrections Framework*