

## List of Talks

(Section I)

Alphabetical

Last updated: June 6, 2003

- # 1 Talk by: **G. A. Alekseev**  
Title: Colliding plane waves of massless fields in general relativity and in the low energy string gravity model  
Date/Time: June 9, 17:40  
Section: Gravity & Cosmolgy  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 2 Talk by: **D. V. Anchishkin**  
Title: Radiation of lepton pairs from finite thermal fireball  
Date/Time: June 11, 18:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall at 4th floor
- # 3 Talk by: **A. A. Andrianov, V. A. Andrianov, P. Giacconi, and R. Soldatti**  
Title: Domain wall generation by fermion self-interaction  
Date/Time: June 9, 16:00  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 4 Talk by: **A. A. Andrianov, V. A. Andrianov, S. Afonin**  
Title: Large- $N_c$  QCD, Operator Product Expansion and string-like meson spectra  
Date/Time: June 9, 16:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 5 Talk by: **A. B. Arbuzov**  
Title: Precision test of weak interactions in muon decay spectrum  
Date/Time: June 8, 18:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor

- # 6 Talk by: **B. A. Arbuzov**  
Title: Effective non-local theories as a result of symmetry breaking  
Date/Time: June 9, 15:30  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 7 Talk by: **I. Ya. Arefeva**  
Title: Superstrings, Born-Infeld action, and rolling tachyon solution  
Date/Time: June 10, 10:50  
Section: Plenary Session  
Auditory: Conference Hall
- # 8 Talk by: **S. Azakov**  
Title: The Schwinger model on the Torus: Hamiltonian approach  
Date/Time: June 9, 18:50  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 9 Talk by: **J. Baacke**  
Title: Scalar  $O(N)$  quantum field theory beyond leading order approximations — in and out of equilibrium  
Date/Time: June 9, 13:20  
Section: Plenary Session  
Auditory: Conference Hall
- # 10 Talk by: **O. V. Babourova**  
Title: Dark matter as matter with dilaton charge  
Date/Time: June 9, 18:00  
Section: Gravity & Cosmolgy  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 11 Talk by: **A. P. Bakulev**  
Title: Pion distribution amplitude and QCD vacuum: recent results from CLEO and E791 experiments  
Date/Time: June 10, 18:40  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 12 Talk by: **V. V. Belokurov, O. A. Khrustalev, V. A. Sadovnichy, O.D.Timofeevskaya**  
Title: Systems and subsystems in quantum mechanics  
Date/Time: June 10, 10:50  
Section: Plenary Session  
Auditory: Conference Hall

- # 13 Talk by: **D. Blaschke**  
Title: Color superconductivity in compact stars  
Date/Time: June 11, 10:10  
Section: Plenary Session  
Auditory: Conference Hall
- # 14 Talk by: **I. L. Bogolubsky**  
Title: Nonperturbative solutions with  $S^2$ -valued scalar fields  
Date/Time: June 10, 18:00  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 15 Talk by: **V. N. Bolotov**  
Title: The Study of Kaon Decays at ISTR A setup  
Date/Time: June 11, 17:40  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 16 Talk by: **M. Bordag**  
Title: On the vacuum polarization of the Nielsen–Olesen string  
Date/Time: June 9, 17:40  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 17 Talk by: **O. A. Borisenko**  
Title: QCD on the lattice at finite baryon density in the field-strength formulation  
Date/Time: June 9, 17:00  
Section: Quantum Chromodynamics  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 18 Talk by: **N. A. Chernikov and N. S. Shavokhina**  
Title: Accounting of the light speed in the Galilean problem of a particle falling on a plane  
Date/Time: June 11, 15:30  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 19 Talk by: **A. Di Giacomo**  
Title: A review of color confinement  
Date/Time: June 10, 12:00  
Section: Plenary Session  
Auditory: Conference Hall

- # 20 Talk by: **M. Dineykhan, T.A.Kozhamkulov, S.A. Zhaugasheva, S.K. Sakhyev**  
Title: Glueball mass spectrum and Regge trajectory in nonperturbative QCD approach  
Date/Time: June 9, 16:20  
Section: Quantum Chromodynamics  
Auditory: Conference Hall
- # 21 Talk by: **A. E. Dorokhov**  
Title: V and A correlators and nonlocal structure of QCD vacuum from ALEPH  $\tau$  decay data  
Date/Time: June 11, 16:40  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 22 Talk by: **I. M. Dremin**  
Title: Some problems of the perturbative QCD  
Date/Time: June 10, 15:30  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 23 Talk by: **S. Dubnička and A. Dubničková**  
Title: An effective method in a description of electromagnetic, weak, and strange form factors of hadrons  
Date/Time: June 10, 13:20  
Section: Plenary Session  
Auditory: Conference Hall
- # 24 Talk by: **D. Ebert**  
Title: String representation of the dual Ginzburg–Landau theory  
Date/Time: June 11, 12:00  
Section: Plenary Session  
Auditory: Conference Hall
- # 25 Talk by: **G. V. Efimov**  
Title: Blokhintsev and nonlocal interaction  
Date/Time: June 9, 10:50  
Section: Plenary Session  
Auditory: Conference Hall
- # 26 Talk by: **S. M. Eliseev**  
Title: DIS of leptons on nuclei: hadronization process, cumulative particles production and Blokhintsev's flucton  
Date/Time: June 8, 15:00  
Section: Quantum Mechanics  
Auditory: Conference Hall

- # 27 Talk by: **L. D. Faddeev**  
Title: Infrared parametrization in the Yang–Mills theory  
Date/Time: June 9, 9:30  
Section: Plenary Session  
Auditory: Conference Hall
- # 28 Talk by: **A. T. Filippov, V. de Alfaro**  
Title: Integrable models describing branes, black holes, and cosmologies  
Date/Time: June 9, 12:00  
Section: Plenary Session  
Auditory: Conference Hall
- # 29 Talk by: **M. Firuzabadi**  
Title: Subthreshold kaon production in P–A interaction  
Date/Time: June 11, 18:00  
Section: Hadron Physics  
Auditory: Blokhintsev’s Lecture Hall 4<sup>th</sup> floor
- # 30 Talk by: **G. V. Efimov and G. Ganbold**  
Title: Quartic field interaction and the strong-coupling problem  
Date/Time: June 10, 17:00  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 31 Talk by: **S. B. Gerasimov**  
Title: Sum rules for two-photon decay widths of meson resonances and quark-gluon configuration structure of low-lying scalar mesons  
Date/Time: June 8, 16:40  
Section: Hadron Physics  
Auditory: Blokhintsev’s Lecture Hall 4<sup>th</sup> floor
- # 32 Talk by: **A. A. Logunov, S. S. Gershtein, M. A. Mestvirishvili, N. P. Tkachenko**  
Title: Graviton mass, quintessence, and oscillating behavior of Universe evolution  
Date/Time: June 9, 10:10  
Section: Plenary Session  
Auditory: Conference Hall
- # 33 Talk by: **I. F. Ginzburg**  
Title: Effects of particle instability in high energy phenomena  
Date/Time: June 10, 16:00  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev’s Lecture Hall 4<sup>th</sup> floor

- # 34 Talk by: **S. V. Goloskokov, P. Kroll, B. Postler**  
Title: Vector meson photoproduction in QCD  
Date/Time: June 9, 16:40  
Section: Quantum Chromodynamics  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 35 Talk by: **M. I. Gorenstein**  
Title: Signals of deconfinement transition in nucleus – nucleus collisions  
Date/Time: June 9, 18:50  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 36 Talk by: **V. K. Henner**  
Title: Spectrum of vector mesons and scalar  $f_0$  states. Application of wavelet analysis.  
Date/Time: June 11, 19:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 37 Talk by: **J. Hüfner**  
Title: Charmonium suppression in nucleus–nucleus collisions  
Date/Time: June 11, 12:40  
Section: Plenary Session  
Auditory: Conference Hall
- # 38 Talk by: **E.-M. Ilgenfritz**  
Title: Topological structure of Yang–Mills theory just below deconfinement  
Date/Time: June 10, 16:50  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 39 Talk by: **J. Bartels, A. Illarionov, A. V. Kotikov, G. Parente**  
Title: Small- $x$  behaviour of parton distributions. A study of higher twist effects  
Date/Time: June 11, 17:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 40 Talk by: **A. P. Isaev**  
Title: Multi-loop Feynman integrals and conformal quantum mechanics  
Date/Time: June 10, 16:40  
Section: Quantum Field Theory  
Auditory: Conference Hall

- # 41 Talk by: **P. S. Isaev**  
Title: On solution of some modern problems of cosmological science  
Date/Time: June 11, 15:50  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 42 Talk by: **L. Jenkovszky**  
Title: Dual-Regge approach to generalized parton distributions and DVCS  
Date/Time: June 9, 18:30  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 43 Talk by: **R. Kaminski**  
Title: Light meson dynamics in scalar isoscalar sector below 2 GeV  
Date/Time: June 8, 17:40  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 44 Talk by: **E. Kapuscik**  
Title: D. I. Blokhintsev microworld spacetime — a modern outlook  
Date/Time: June 8, 14:30  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 45 Talk by: **M. O. Katanaev**  
Title: Geometric theory of defects in solids and three-dimensional gravity  
Date/Time: June 11, 16:40  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 46 Talk by: **E. Kolomeitsev**  
Title: Resonance states below pion–nucleon threshold in nuclear systems  
Date/Time: June 8, 17:10  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 47 Talk by: **V. M. Koryukin**  
Title: Weakly interacting particles and the Universe evolution  
Date/Time: June 11, 18:50  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall

- # 48 Talk by: **B. P. Kosyakov**  
Title: Some facts and fictions in subnuclear realm  
Date/Time: June 8, 17:30  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 49 Talk by: **G. A. Kotel'nikov**  
Title: On the faster-than-light motions in electrodynamics  
Date/Time: June 10, 18:40  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 50 Talk by: **P. P. Kulish**  
Title: Algebraic aspects of integrable models in quantum field theory  
Date/Time: June 10, 15:30  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 51 Talk by: **E. A. Kuraev, V. Byt'ev**  
Title: Check of  $\rho - \sigma$  degeneracy by DIS experiments with two-charged-pions production  
Date/Time: June 11, 16:00  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 52 Talk by: **D. S. Kuzmenko, Yu. S. Kalashnikova**  
Title: Hybrid mesons in the QCD string model  
Date/Time: June 9, 16:30  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 53 Talk by: **A. K. Likhoded**  
Title: Some problems in heavy quark production  
Date/Time: June 10, 18:00  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 54 Talk by: **M. Lutz**  
Title: Chiral symmetry, strangeness and nuclear matter  
Date/Time: June 11, 15:30  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor



- # 55 Talk by: **V. V. Lyuboshitz**  
Title: Lifetime and path-length of the virtual particle  
Date/Time: June 9, 19:10  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 56 Talk by: **S. N. Mayburov**  
Title: Fuzzy space-time Geometry as novel approach to fields quantization  
Date/Time: June 9, 18:20  
Section: Gravity & Cosmolgy  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 57 Talk by: **E. Yu. Melkumova**  
Title: String bremsstrahlung  
Date/Time: June 9, 16:50  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 58 Talk by: **E. Mihul**  
Title: Consequences of Lorentz Causality  
Date/Time: June 9, 16:30  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 59 Talk by: **R. Mir-Kasimov**  
Title: Non-commutable differential calculus and  $q$ -oscillators  
Date/Time: June 9, 16:50  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 60 Talk by: **M. Musakhanov**  
Title: Instanton vacuum QCD effective action beyond chiral limit  
Date/Time: June 9, 15:30  
Section: Quantum Chromodynamics  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 61 Talk by: **E. G. Mychelkin**  
Title: Foundations of Geometrized Scalar Gravity and Physical Vacuum  
Date/Time: June 11, 18:30  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall

- # 62 Talk by: **T. Nasyrov**  
Title: Spectroscopy of pseudoscalar and vector mesons and their leptonic decay constants  
Date/Time: June 11, 18:40  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 63 Talk by: **S. D. Odintsov**  
Title: dS/CFT correspondence and early Universe  
Date/Time: June 11, 16:10  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 64 Talk by: **V. V. Papoyan**  
Title: Static and stationary fields in Jordan-Brans-Dicke theory of gravitation  
Date/Time: June 11, 18:10  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 65 Talk by: **O. Pashaev**  
Title: Noncommutative, nonlinear integrable models  
Date/Time: June 10, 16:00  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 66 Talk by: **O. V. Pavlovsky**  
Title: Chiral Born–Infeld theory, two-phase model of baryons and chiral limit of QCD  
Date/Time: June 10, 18:20  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 67 Talk by: **V. N. Pervushin**  
Title: Astrophysics in relative units as theory of conformal brane  
Date/Time: June 11, 17:40  
Section: Gravity & Cosmolgy  
Auditory: Conference Hall
- # 68 Talk by: **A. B. Pestov**  
Title: Space-time bag model  
Date/Time: June 9, 18:40  
Section: Gravity & Cosmolgy  
Auditory: Lecture Hall 2<sup>nd</sup> floor

- # 69 Talk by: **I. G. Pirozhenko**  
Title: Heat kernel expansion for dielectric like spectral problems  
Date/Time: June 9, 18:10  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 70 Talk by: **L. V. Prokhorov**  
Title: Particles and wave functions  
Date/Time: June 8, 16:40  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 71 Talk by: **A. P. Protogenov**  
Title: Structures of Order Parameters in Faddeev–Niemi Model  
Date/Time: June 10, 16:20  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 72 Talk by: **A. V. Radyushkin**  
Title: Generalized Parton Distributions  
Date/Time: June 11, 13:20  
Section: Plenary Session  
Auditory: Conference Hall
- # 73 Talk by: **A. E. Radzhabov and M. K. Volkov**  
Title: Meson model with nonlocal four-quark interaction  
Date/Time: June 10, 16:30  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 74 Talk by: **G. Röpke**  
Title: Quantum condensates in dense matter  
Date/Time: June 11, 10:50  
Section: Plenary Session  
Auditory: Conference Hall
- # 75 Talk by: **V. A. Saleev**  
Title: Charmed quark photoproduction and photon structure function in BFKL approach  
Date/Time: June 11, 18:20  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor

- # 76 Talk by: **V. I. Sanyuk**  
Title: Skyrmions and torons in nuclear physics  
Date/Time: June 11, 16:20  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 77 Talk by: **F. Saradzhev**  
Title: Particle production by a self-interacting scalar field: tachyonic regime  
Date/Time: June 10, 19:00  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 78 Talk by: **T. Hallman, Yu. Panebratsev, I. A. Savin**  
Title: Selected Recent Results from the STAR Experiment  
Date/Time: June 11, 9:30  
Section: Plenary Session  
Auditory: Conference Hall
- # 79 Talk by: **O. Yu. Shvedov**  
Title: What is semiclassical field theory  
Date/Time: June 8, 17:10  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 80 Talk by: **Y. A. Simonov**  
Title: Gluon degrees of freedom in QCD spectrum and DIS  
Date/Time: June 10, 12:40  
Section: Plenary Session  
Auditory: Conference Hall
- # 81 Talk by: **V. V. Skalozub**  
Title: Signals of the Abelian  $Z'$  gauge boson within the analysis of the LEP2 data  
Date/Time: June 9, 16:00  
Section: Quantum Chromodynamics  
Auditory: Lecture Hall 2<sup>nd</sup> floor
- # 82 Talk by: **A. A. Slavnov**  
Title: Symmetry and renormalization  
Date/Time: June 10, 10:10  
Section: Plenary Session  
Auditory: Conference Hall

- # 83 Talk by: **A. V. Prozorkevitch, V. V. Skokov, S. A. Smolyansky**  
Title: Kinetic theory of quantum field systems with unstable vacuum  
Date/Time: June 10, 17:40  
Section: Quantum Field Theory  
Auditory: Conference Hall
- # 84 Talk by: **L. D. Soloviev**  
Title: String model of hadrons. Latest results.  
Date/Time: June 9, 15:30  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 85 Talk by: **A. D. Sukhanov**  
Title: D.I. Blokhintsev and fundamental problems of quantum mechanics  
Date/Time: June 8 15:20  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 86 Talk by: **Yu. S. Surovtsev**  
Title: On the nature of  $f_0$  mesons below 1.9 GeV and lower scalar nonets  
Date/Time: June 10, 18:20  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 87 Talk by: **E. A. Tagirov**  
Title: Quantum Mechanics vs. different mathematical theories of quantization  
Date/Time: June 8, 18:10  
Section: Quantum Mechanics  
Auditory: Conference Hall
- # 88 Talk by: **O. V. Teryaev**  
Title: Spin, gravity, and confinement  
Date/Time: June 10, 17:40  
Section: Quantum Chromodynamics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 89 Talk by: **V. Toneev, Yu. B. Ivanov, E. G. Nikonov, W. Nörenberg, V. N. Russkih**  
Title: Three-Fluid Hydrodynamic Model for Relativistic Heavy-Ion Collisions  
Date/Time: June 9, 17:40  
Section: Hadron Physics  
Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor

- # 90 Talk by: **A. A. Tyapkin**  
 Title: About the first two Blokhintsev's books on Quantum Mechanics  
 Date/Time: June 8, 15:50  
 Section: Quantum Mechanics  
 Auditory: Conference Hall
- # 91 Talk by: **V. S. Vanyashin**  
 Title: Positronium Bose condensate as gamma laser  
 Date/Time: June 8, 17:50  
 Section: Quantum Mechanics  
 Auditory: Conference Hall
- # 92 Talk by: **Yu. S. Vernov**  
 Title: Dispersion relations in noncommutative field theory  
 Date/Time: June 9, 18:30  
 Section: Quantum Field Theory  
 Auditory: Conference Hall
- # 93 Talk by: **R. Woodard**  
 Title: Standard Model fermion self-energies during inflation  
 Date/Time: June 9, 12:40  
 Section: Plenary Session  
 Auditory: Conference Hall
- # 94 Talk by: **D. Blaschke, M. K. Volkov, V. L. Yudichev**  
 Title: Coexistence of color superconductivity and chiral symmetry breaking  
 Date/Time: June 9, 18:10  
 Section: Hadron Physics  
 Auditory: Blokhintsev's Lecture Hall 4<sup>th</sup> floor
- # 95 Talk by: **M. V. Yurova and G. A. Alekseev**  
 Title: Monodromy transform approach to construction of classical solutions in string gravity  
 Date/Time: June 9, 19:00  
 Section: Gravity & Cosmolgy  
 Auditory: Lecture Hall 2<sup>nd</sup> floor

Total number of talks: 95