

**National Science Center  
Kharkov Institute of Physics and Technology**

**3<sup>rd</sup> International Conference on  
QUANTUM ELECTRODYNAMICS AND STATISTICAL PHYSICS**

**QEDSP2011**

**CONFERENCE PROGRAM**

**August 29 – September 02, 2011**

**Kharkov, Ukraine**

**Updated 28 Aug 2011**

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## Monday, August 29, 2011

8-00 - 10-30 Registration

10-30 - 11-00 Opening (Large Hall, KNU)

### Plenary Session (Large Hall KNU<sup>1</sup>)

**Chairman A.Bakai**

11-00 - 11-30 MAGNETOELASTIC WAVES IN THE FERROMAGNETS  
PLE2 NEAR MARTENSITE PHASE TRANSITION  
V.G. Bar'yakhtar, A.G. Danilevich, V.A. L'vov

11-30 - 12-00 COHERENT PROCESSES IN SCATTERING AND  
PLB4 RADIATION AT HIGH-ENERGIES IN CRYSTALS (To the  
100th anniversary of the birth of A.I. AKHIEZER)  
N.F. Shul'ga

12-00 - 12-30 KINETIC EQUATIONS IN THE POLARON THEORY FOR  
PLD1 THE CASE OF SPACE INHOMOGENEITY  
Nikolai Bogolubov (Jr.) and Anna Ghazaryan

12-30 - 13-00 FOKKER-PLANCK EQUATIONS WITH MEMORY: THE  
PLE8 CROSS OVER FROM BALLISTIC TO DIFFUSIVE  
PROCESSES  
A. Zagorodny

13-30 - 14-40 Lunch

### Section A (New Physical Sinelnikov Lecture Hall<sup>2</sup>, KNU)

**Chairman Yu.Sitenko**

14-40 - 15-00 GENERALIZED HOOKE LAW FOR RELATIVISTIC  
OA18 MEMBRANES AND P-BRANES  
A.A. Zheltukhin

15-00 - 15-20 REPRESENTATION POSSESSING COMPONENTS WITH  
OA15 DIFFERENT MASSES  
D.V. Soroka and V.A. Soroka

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<sup>1</sup> See Plan of the KNU building, Fig. 1, page 30

<sup>2</sup> See Plan of the KNU building, Fig. 3, page 31

- 15-20 - 15-40 RELATIVISTIC INTERACTIONS IN MESON-NUCLEON  
 OA14 SYSTEMS: APPLICATIONS IN THE THEORY OF NUCLEAR  
 REACTIONS  
 A.V. Shebeko
- 15-40 - 16-00 ON THE TYPE OF THE TEMPERATURE PHASE  
 OA5 TRANSITION IN O(N) MODELS  
V. Demchik, M. Bordag, A. Gulov, and V. Skalozub
- 16-00 - 16-20 Coffee Break

**Chairman A.Shebeko**

- 16-20 - 16-40 A NONLOCAL EXTENSION OF THE WENTZEL FIELD  
 OA8 MODEL IN THE CLOTHED-PARTICLE REPRESENTATION  
 A.V. Shebeko and P.A. Frolov
- 16-40 - 17-00 QUARK TO W/Z BOSON CONVERSION IN *pp* COLLISIONS  
 OA3 M.V. Bondarenco
- 17-00 - 17-20 INTEGRABLE WZNW MODELS AND STRING MODELS OF  
 PF5 WZNW MODEL TYPE WITH CONSTANT SU(2) TORSION  
 V.D. Gershun
- 17-20 - 17-40 ADS<sub>4</sub>×CP<sup>3</sup> SUPERSTRING: 3D CONFORMAL SYMMETRY  
 PA13 PERSPECTIVE  
 D.V. Uvarov

**Section B (Large Physical Lecture Hall<sup>3</sup>, KNU)**

**Chairman E.Kuraev**

- 14-40 - 15-00 EVOLUTION OF THE HADRONIC SYSTEM CREATED IN  
 OB1 RELATIVISTIC HEAVY-ION COLLISIONS  
D. Anchishkin, V. Vovchenko, A. Muskeyev, and S. Yezhov
- 15-00 - 15-20 RESONANT EFFECTS OF QUANTUM  
 OB12 ELECTRODYNAMICS IN THE PULSED LIGHT FIELD  
 S.P. Roshchupkin

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<sup>3</sup> See Plan of the KNU building, Fig. 2, page 30

- 15-20 - 15-40 THRESHOLD ELECTRON-POSITRON PAIR PRODUCTION  
OB11 BY A POLARIZED ELECTRON IN A STRONG MAGNETIC FIELD  
O.P. Novak and R.I. Kholodov
- 15-40 - 16-00 RADIATIVE CORRECTIONS TO POLARIZED  
OB9 OBSERVABLES IN ELASTIC ELECTRON-DEUTERON SCATTERING IN LEPTONIC VARIABLES  
G.I. Gakh, M.I. Konchatnij and N.P. Merenkov
- 16-00 - 16-20 Coffee Break

**Chairman R.Kholodov**

- 16-20 - 16-40 POLARIZATION PHENOMENA IN THE TWO-PHOTON  
OB8 ELECTRON-POSITRON ANNIHILATION  
V.N. Maslov, and Yu.P. Stepanovsky
- 16-40 - 17-00 EFFECT OF SCALAR ELECTROMAGNETIC FIELD  
OB3 COUPLING AND STRONG-NONLINEAR ELECTROMAGNETIC FIELD ON LIGHT PROPAGATION IN LABORATORY AND ASTROPHYSICAL ENVIRONMENTS  
Avijit K. Ganguly
- 17-00 - 17-20 AMPLIFICATION OF ELECTROMAGNETIC FIELD IN THE  
OB15 ULTRARELATIVISTIC ELECTRON SCATTERING BY ION IN A LIGHT WAVE  
V.A. Tsybul'nik, S.P. Roshchupkin
- 17-20 - 17-40 THE INFLUENCE OF A STRONG PULSED LASER FIELD  
OB7 ON THE PROCESSES OF NONRELATIVISTIC ELECTRON SCATTERING BY A NUCLEUS  
A.A. Lebed', S.P. Roshchupkin

**Section E (VI-52 Tarapov Lecture Hall<sup>4</sup>, 6th fl., KNU)**

**Chairman A.Chechkin**

- 14-40 - 15-00 INTERACTION OF HE II QUASIPARTICLES WITH  
OE2 INTERFACES AND SURFACE MODES  
I.V. Tanatarov, I.N. Adamenko, K.E. Nemchenko, and A.F.G. Wyatt

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<sup>4</sup> See Plan of the KNU building, Fig. 4, page 31

- 15-00 - 15-20 ROLE OF SINGLE-PARTICLE AND PAIR CONDESATES IN  
OE17 SUPERFLUID BOSE SYSTEMS  
A.S. Peletminskii, S.V. Peletminskii, and Yu.M. Poluektov
- 15-20 - 15-40 SYMMETRY, PHASE STATES AND DYNAMICS OF  
OE9 MAGNETS WITH SPIN  $s=1$   
M.Y. Kovalevsky, O.A. Kotelnikova
- 15-40 - 16-00 PARAMAGNETIC TUNNELING SYSTEMS AND THEIR  
OE4 CONTRIBUTION TO THE POLARIZATION ECHO IN  
GLASSES  
A. Borisenko and G. Jug
- 16-00 - 16-20 Coffee Break

**Chairman I.Adamenko**

- 16-20 - 16-40 QUANTUM PHASE TRANSITIONS OF ULTRACOLD  
OE22 ATOMS IN OPTICAL LATTICES: DYNAMICAL MEAN  
FIELD THEORY STUDIES  
A. Sotnikov and W. Hofstetter
- 16-40 - 17-00 DIAMAGNETIC DOMAINS AND NONLINEAR  
OE18 ELECTROMAGNETIC WAVES IN METALS  
V.G. Peschansky and D.I. Stepanenko
- 17-00 - 17-20 THEORY OF HOMOGENEOUS/HETEROGENEOUS  
OE8 CHEMICAL REACTION WITH PRE-SATURATION  
D.Yu. Kopychenko and P.O. Mchedlov-Petrosyan
- 17-20 - 17-40 ON PHASE TRANSITIONS IN THE SYSTEM OF CHARGED  
OE13 FERMI PARTICLES ABOVE THE LIQUID DIELECTRIC  
SURFACE  
D.M. Lytvynenko and Yu.V. Slyusarenko
- 18-00 - 21-00 Visit to Museum of Kharkov University and Welcome Party<sup>5</sup>

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<sup>5</sup> See Plan of the KNU building, Fig. 5, page 31

**Tuesday, August 30, 2011**  
**Plenary Session**  
**(New Physical Sinelnikov Lecture Hall<sup>6</sup>, KNU)**

**Chairman A.Sokolovsky**

- 9-00 - 9-30    THEORY OF THE HETEROPHASE FLUCTUATIONS IN  
 PLE1            THE VICINITY OF A CRITICAL POINT OF AN  
                   AMORPHOUS STATE  
                   A.S. Bakai
- 9-30 - 10-00    STRING FRAGMENTATION MODEL WITH QUARK SPIN  
 PLC1            X. Artru
- 10-00 - 10-30    FRASCATI'S BTF/SPARC FACILITIES AND RADIATION  
 PLB1            RELATED PROJECTS  
                   S.B. Dabagov
- 10-30 - 11-00    LOW BOUND ON THE MAGNETIC FIELD STRENGTH IN  
 PLC6            THE HOT UNIVERSE  
                   M. Bordag, E. Elizalde and V. Skalozub
- 11-00 - 11-30    Coffee Break

**Chairman S.Dabagov**

- 11-30 - 12-00    UNRUH EFFECT AND SOME HIGH ENERGY  
 PLD3            EXPERIMENTS  
                   K.A. Ispirian
- 12-00 - 12-30    HIGH-ENERGY DIFFRACTION OF PARTICLES AND  
 PLC3            NUCLEI  
                   L.L. Jenkovszky
- 12-30 - 13-00    LÉVY FLIGHTS AND FRACTIONAL BROWNIAN MOTION  
 PLD2            AS THE PARADIGMS OF ANOMALOUS TRANSPORT  
                   A. Chechkin
- 13-30 - 14-30    Lunch

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<sup>6</sup> See Plan of the KNU building, Fig. 3, page 31

## Section A (New Physical Sinelnikov Lecture Hall<sup>7</sup>, KNU)

### Chairman A.Zheltukhin

- 14-40 - 15-00 IS FIELD-INDUCED FERROMAGNETIC PHASE  
 OA10 TRANSITION IN THE MAGNETAR CORE ACTUALLY  
 POSSIBLE?  
 A.A. Isayev
- 15-00 - 15-20 DIFFUSION IN COLD AND HEAT VACUA WITHIN THE  
 OA16 FRAMEWORK OF STOCHASTIC HYDRODYNAMICS  
 O.N. Golubjeva, V.G. Baryakhtar, A.D. Sukhanov
- 15-20 - 15-40 SPIN, CONFINEMENT, LOCALIZATION AND  
 PA1 SUPERSYMMETRY  
 D.J. Cirilo-Lombardo
- 15-40 - 16-00 ABOUT THE ACCOUNT OF ENERGY-MOMENTUM  
 OA17 CONSERVATION LAW AT THE CALCULATION OF  
 HADRON-HADRON INELASTIC SCATTERING CROSS-  
 SECTION  
 I.V. Sharf, V.D. Rusov, A.V. Tykhonov, M.A. Delyiergyiev, G.O.  
 Sokhrannyi, N.A. Podolyan
- 16-00 - 16-20 Coffee Break

### Chairman A.Isaev

- 16-20 - 16-40 THE DYNAMIC OF SQUEEZED STATES IN MULTI-WELL  
 OA2 POTENTIALS  
 V.P. Berezovoj, and M.I. Konchatnij
- 16-40 - 17-00 NECESSARY GENERALIZATION OF KLEIN-GORDON AND  
 OA12 DIRAC EQUATIONS AND EXISTENCE OF PARTICLE  
 GENERATIONS  
 Yu. V. Kulish, E.V. Rybachuk
- 17-00 - 17-20 MODEL-INDEPENDENT Z' SEARCHES AT MODERN  
 OA9 COLLIDERS  
A.V. Gulov and A.A. Kozhushko
- 17-20 - 17-40 PHYSICAL ELECTRON AS SELF-LOCALIZED  
 OA7 EXCITATION OF THE ELECTRON-POSITRON FIELD  
 I.D. Feranchuk and A.A. Ivanov

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<sup>7</sup> See Plan of the KNU building, Fig. 3, page 31

- 17-40 - 18-00 APPROACH TO PROBLEM OF COSMOLOGICAL  
 OC10 CONSTANT  
 D.V. Soroka and V.A. Soroka

## Section C (Large Physical Lecture Hall<sup>8</sup>, KNU)

### Chairman D.Anchishkin

- 14-40 - 15-00 VECTOR TO PSEUDOSCALAR MESON RADIATIVE  
 OC3 TRANSITIONS IN CHIRAL THEORY WITH RESONANCES  
 S.A. Ivashyn
- 15-20 - 15-40 PROMPT PHOTON PRODUCTION IN PROTON-PROTON  
 OC5 SCATTERING AT ULTRARELATIVISTIC ENERGIES  
V.V. Kotlyar, N.V. Krupina
- 15-20 - 15-40  $J/\Psi$ ,  $Y$ , AND B MESONS PRODUCTION IN  $pp$  COLLISIONS AT  
 OC6 THE LHC  
 V.V. Kotlyar, N.V. Krupina
- 15-40 - 16-00 GAMOW APPROACH TO CALCULATING THE  
 OC12 TEMPERATURE OF THE BACKGROUND RADIATION: IS IT  
 VALID IN THE ACCELERATED UNIVERSE?  
 Yu.P. Stepanovsky
- 16-00 - 16-20 Coffee Break

### Chairman V.Skalozub

- 16-20 - 16-40 RADIATIVE QUARKS MASSES AT MSSM  
 OC9 M.C. Rodriguez
- 16-40 - 17-00 AXION MECHANISM OF THE SUN LUMINOSITY AND  
 OC7 SOLAR DYNAMO-GEODYNAMO CONNECTION  
 V.D. Rusov, E.P. Linnik, K. Kudela, S.Cht. Mavrodiev, I.V. Sharph,  
 T.N. Zelentsova, M.E. Beglaryan, V.P. Smolyar, K.K. Merkotan
- 17-00 - 17-20 ON SOME PROPERTIES OF TURBULENT QUARK-GLUON  
 OC4 PLASMA  
 M.R. Kirakosyan
- 17-20 - 17-40 NON-LINEAR EFFECTS AT IONIZATION OF HYDROGEN  
 OC11 ATOMS IN THE STRONG PULSED LIGHT FIELD  
S.S. Starodub, S.P. Roshchupkin

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<sup>8</sup> See Plan of the KNU building, Fig. 2, page 30

## Section E (VI-52 Tarapov Lecture Hall<sup>9</sup>, 6th fl., KNU)

### Chairman M.Kovalevsky

- 14-40 - 15-00 MARTENSITIC TRANSITION BCC-HCP: THE THREE  
OE12 ORDER PARAMETERS THEORY  
V.A. Lykah and E.S. Syrkin
- 15-00 - 15-20 AUTOCATALYTIC PROCESSES OF PLASTIC  
OE10 DEFORMATION IN POLYCRYSTAL METALS AND  
ALLOYS  
V.V. Krasilnikov, M.N. Bronnikova, and S.E. Savotchenko
- 15-20 - 15-40 TO THE STATISTICAL DESCRIPTION OF COULOMB LIKE  
OE11 SYSTEM  
B.I. Lev and A.G. Zagorodny
- 16-00 - 16-20 Coffee Break

### Chairman V.Krasilnikov

- 16-20 - 16-40 MIGRATION OF MAGNETIC REGIONS ON THE SUN  
OE23 A.A. Stanislavsky and A.A. Koval
- 16-40 - 17-00 CREATION AND ANNIHILATION PROCESSES ON HE II  
OE1 SOLID INTERFACE  
I.N. Adamenko, E.K. Nemchenko
- 17-00 - 17-20 NUCLEATION UNDER BCC-HCP TRANSITION IN <sup>4</sup>He  
OE14 N.P. Mikhin, A.P. Birchenko, E.Ya. Rudavskii, and Ye.O. Vekhov

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<sup>9</sup> See Plan of the KNU building, Fig. 4, page 31

## Wednesday, August 31, 2011 Plenary Session (Large Hall, KIPT)

**Chairman X.Artru**

- 9-00 - 9-30 CHAOTIC UNIVERSE  
PLC2 Yu.L. Bolotin and V.V. Yanovsky
- 9-30 - 10-00 ION ACOUSTIC TURBULENCE IN PLASMAS WITH  
PLF3 ANISOTROPICALLY HEATED IONS  
V.P. Silin
- 10-00 - 10-30 COHERENT INTERACTIONS OF HIGH-ENERGY PARTICLES  
PLB2 IN A BENT CRYSTAL  
V. Guidi
- 10-30 - 11-00 ASTROPHYSICAL THEORY OF THE EARTH GLOBAL  
PLF2 CLIMATE ON DIFFERENT TIME SCALES: COMPARISON  
WITH EXPERIMENT AND FORECAST  
V.D. Rusoy, E.P. Linnik, V.N. Vaschenko, S. Cht. Mavrodiev,  
M.E. Beglaryan, K. Kudela, T.N. Zelentsova, V.A. Tarasov,  
D.A. Litvinov, V.P. Smolyar, B. Vachev
- 11-00 - 11-30 Coffee Break

**Chairman A.Korchin**

- 11-30 - 12-00 POLARIZATION EFFECTS IN ELASTIC PROTON-ELECTRON  
PLB6 SCATTERING  
Egle Tomasi-Gustafsson, G.I. Gakh, A. Dbeyssi, D. Marchand,  
V.V. Bytev
- 12-00 - 12-30 NONRELATIVISTIC QUANTUM THEORY OF STIMULATED  
PLA5 CHERENKOV RADIATION AND COMPTON SCATTERING IN  
PLASMA  
A.A. Rukhadze and M.V. Kuzelev
- 12-30 - 13-00 PHASE TRANSITIONS IN COLD PLASMA INDUCED BY  
PLE4 EXTERNAL ACOUSTIC FIELDS  
A.R. Mkrтчyan, A.G. Mkrтчyan, and A.S. Abrahamyan
- 13-00 - 13-30 NEW DEVELOPMENTS IN STUDY OF HIGH ENERGY  
PLB7 PARTICLE INTERACTION WITH CRYSTALS IN CERN  
V.V. Tikhomirov
- 13-30 - 14-30 Lunch

## Section B (Large Hall, KIPT)

### Chairman N.Merenkov

- 14-40 - 15-00 LECTRON-POSITRON PAIR PHOTOPRODUCTION WITH  
OB4 RADIATION OF A PHOTON IN MAGNETIC FIELD AT  
NONRESONANT REGIME  
P.I. Fomin and R.I. Kholodov
- 15-00 - 15-20 THE PREWAVE ZONE EFFECTS IN TRANSITION RADIATION  
OB14 AND BREMSSTRAHLUNG BY RELATIVISTIC ELECTRON  
WITH NONEQUILIBRIUM FIELD  
N.F. Shul'ga, S.V. Trofymenko, V.V. Syshchenko
- 15-20 - 15-40 RESONANT PAIR PRODUCTION UNDER SCATTERING OF AN  
OB16 ELECTRON IN THE FIELD OF AN ELECTROMAGNETIC  
WAVE  
A.I. Voroshilo, S.P. Roshchupkin, and V.N. Nedoreshta
- 15-40 - 16-00 QED AND QCD RADIATIVE CORRECTIONS TO PROCESSES  
OB6 ON LEPTON AND HADRON COLLIDERS  
E.A. Kuraev
- 16-00 - 16-20 Coffee Break

### Chairman S.Roshchupkin

- 16-20 - 16-40 ANGULAR DISTRIBUTION AND POLARIZATION OF  
OB2 RADIATION BY RELATIVISTIC ELECTRON IN A THIN  
CRYSTAL  
A.S. Fomin and N.F. Shul'ga
- 16-40 - 17-00 FOCUSING OF PARAMETRIC X-RAY RADIATION EMITTED  
OB13 BY RELATIVISTIC PARTICLES MOVING RECTILINEARLY IN  
BENT CRYSTAL  
V. Guidi, A.V. Shchagin
- 17-00 - 17-20 INFLUENCE OF THE INTENSIVE PULSE LASER FIELD ON  
OB10 THE SCATTERING OF A PHOTON BY AN ELECTRON  
V.N. Nedoreshta, S.P. Roshchupkin, and A.I. Voroshilo
- 17-20 - 17-40 CRYSTAL THICKNESS OPTIMIZATION AS A WAY TO  
PB14 IMPROVE THE LHC UPGRADE COLLIMATION SYSTEM  
V.V. Tikhomirov, and A.I. Sytov
- 17-40 - 18-20 Film

## **Sections C, F (Small Hall, KIPT)**

**Chairman V.Gusynin**

- 14-40 - 15-00 ON REGULAR GEONS IN GENERAL RELATIVITY AND  
OC8 DARK MATTER IN GALAXIES  
V.P. Olyeynik
- 15-00 - 15-20 HOLOGRAPHIC DYNAMICS AS A WAY TO SOLVE THE  
OC1 BASIC COSMOLOGICAL PROBLEMS  
Yu.L. Bolotin, O.A. Lemets, D.A. Yerokhin, L.G. Zazunov
- 15-20 - 15-40 OPTIMAL FLAME CAPTURING MODEL FOR TYPE IA  
OC14 SUPERNOVA SIMULATIONS  
A.V. Zhiglo
- 15-40 - 16-00 ACCELERATIONS OF PARTICLES BY BLACK HOLES  
OC13 O.B. Zaslavskii

**Chairman Yu.Slyusarenko**

- 16-20 - 16-40 LOW PRESSURE DISCHARGE INDUCED BY MICRO- WAVE  
OF6 RADIATION WITH STOCHASTIC JUMPING PHASE  
V. I. Karas`, A.F. Alisov, A.M. Artamoshkin, O.V. Bolotov, V.I.  
Golota, A.M. Egorov, I.V. Karas`, I.F. Potapenko, A.N. Starostin,  
I.A. Zagrebelny
- 16-40 - 17-00 ON GEOMETRY OF NAVIER-STOKES EQUATIONS  
OF5 V.S. Dryuma
- 17-00 - 17-20 ANNULAR BILLIARDS AS A PARADIGM FOR QUANTUM  
OF4 FRACTALS  
V.A. Cherkaskiy

## Poster Session (Lobby, KIPT)

### Sections A, D, E

Chairman A.Kirdin

### Section A

OA4

BARGMANN-WIGNER GENERALIZATIONS OF THE RELATIVISTIC WAVE EQUATIONS, ARBITRARY SPIN AND THE INTERACTION PROBLEM

D.J. Cirilo-Lombardo

PA2

ON SUPER CUNTZ ALGEBRAS

S. Duplij

PA3

ON QUIVERS, HOPF QUIVERS, THEIR REPRESENTATIONS AND SUPERSYMMETRIC GENERALIZATIONS

S. Duplij and G.Ch. Kurinnoj

PA4

GENERAL PROPERTIES OF INTERACTION CURRENTS OF HIGHER SPIN FERMIONS AND THEIR CONSEQUENCES FOR  $\pi N$ -SCATTERING

Yu. V. Kulish, E.V. Rybachuk

PA5

ON 2D MASSLESS FIELD WAVE EQUATIONS

I.E. Ovcharenko, Yu.P. Stepanovsky

PA6

GRASSMANN DYNAMICS OF CLASSICAL SPIN IN NONABELIAN GAUGE FIELDS

S.A. Pol'shin

PA7

ON QUANTIZATION OF NON-LINEAR COMPLEX SCALAR FIELD WITH SPONTANEOUSLY BROKEN SYMMETRY

Yu.M. Poluektov

PA8

NAMBU-LIKE GRASSMANN-ODD BRACKETS ON SUPERMANIFOLDS

D.V. Soroka and V.A. Soroka

PA9

GENERALIZATIONS OF SCHOUTEN-NIJENHUIS BRACKET AND YANG-BAXTER EQUATION

D.V. Soroka and V.A. Soroka

PA10

GRASSMANN-ODD NAMBU BRACKET ON ANTICOMMUTATIVE VARIABLES

D.V. Soroka and V.A. Soroka

PA11

NAMBU-LIKE GRASSMANN-ODD BRACKET ON ANTICOMMUTATIVE VARIABLES

D.V. Soroka and V.A. Soroka

PA12

RENORMALIZATION OF QUANTUM FIELD MODEL FOR OPEN SYSTEM INTERACTION

V.I. Tykhonov, A.V. Tykhonov

## Section D

PD1

FINAL DISTRIBUTION DENSITY OF FRAGMENTS SIZES IN SCALE-NONINVARIANT SLOW FRAGMENTATION

Yu.P. Virchenko, R.Ye. Brodskii

PD2

LONG-TIME BEHAVIOR OF THE CONTINUOUS-TIME RANDOM WALK WITH A SUPERHEAVY-TAILED DISTRIBUTION OF WAITING TIMES

S.I. Denisov, Yu.S. Bystrik, and H. Kantz

PD3

NON-EQUILIBRIUM REVERSIBLE DYNAMICS OF WORK PRODUCTION IN 4 SPIN SYSTEM IN MAGNETIC FIELD AND EMERGENCE OF ATTRACTOR UNDER UNITARY EVOLUTION

E.A. Ivanchenko

PD4

POLARIZATION FEATURES OF ACOUSTIC SPECTRA IN UNIAXIAL AND BIAxIAL NEMATIC LIQUID CRYSTALS

M.Y. Kovalevsky, L.V. Logvinova, V.T. Matskevych

PD5

LOW-FREQUENCY GREEN FUNCTIONS ASYMPTOTICS IN UNIAXIAL  
AND BIAXIAL NEMATIC LIQUID CRYSTALS

V.T. Matskevych

PD6

TO THE GROSS-PITAEVSKII DYNAMICS OF CONDENSATE AS A  
SUBSYSTEM OF SUPERFLUID BOSE GAS

A.I. Sokolovsky, N.N. Bannikova

PD7

HYDRODYNAMICS OF SUPERFLUID BOSE LIQUID AS A ONE-  
COMPONENT SYSTEM

A.I. Sokolovsky, N.G. Gusevik

PD8

TO KINETICS OF POLARON IN THE BOGOLYUBOV REDUCED  
DESCRIPTION METHOD

S.A. Sokolovsky

PD9

ANGLE-DEPENDENT CYCLOTRON RESONANCE IN ORGANIC Q2D  
CONDUCTORS

D.I. Stepanenko

## Section E

PE1

SOLIDIFICATION KINETICS OF PURE Sn SINGLE DROPS: EFFECT OF  
NANO-SIZE NUCLEATION SITES

A.S. Abyzov, J.W.P. Schmelzer, B. Yang, Y. Gao, and C. Schick

PE2

STRESS INDUCED PORE FORMATION IN A CRYSTALLIZING  
DIOPSIDE GLASS: GENERALIZED GIBBS APPROACH

A.S. Abyzov, J.W.P. Schmelzer, V.M. Fokin

PE3

HOMOGENEOUS BUBBLE NUCLEATION LIMIT OF LEAD

A.S. Abyzov, J.W.P. Schmelzer, L.N. Davydov, and V.V. Slezov

PE4

STATIC AND ORIENTATIONAL ORDER IN CO<sub>2</sub>-Kr

V.V. Danchuk, A.A. Solodovnik

- PE5  
ONE-DIMENSIONAL HOPPING TRANSPORT IN ENERGETICALLY  
DISORDERED SYSTEMS IN PRESENCE OF A STRONG BIASED FIELD  
M.P. Fateev
- PE6  
EFFECTIVE-MEDIUM APPROXIMATION FOR THE FIELD  
DEPENDENCE OF THE HOPPING TRANSPORT IN DISORDERED  
SYSTEMS  
M.P. Fateev
- PE7  
AN ACOUSTIC ECHO EFFECT IN DAVYDOV-ZAKHAROV SYSTEMS  
WITH INCOHERENT HIGH-FREQUENCY FIELDS  
E.A.Fedutenko
- PE8  
CORRELATION THEORY OF CONCENTRATION DECOMPOSITION OF  
A SUBMONOLAYER FILM UNDER SORPTION PROCESSES  
E.P. Feldman, K.V. Gumennyk, L.I. Stefanovich
- PE9  
MEAN-FIELD, ISING-LIKE BEHAVIOR AND EXPERIMENT NEAR THE  
CRITICAL POINT OF PURE LIQUIDS  
D.Yu. Ivanov
- PE10  
WAVE PACKETS TRANSMISSION THROUGH OPEN MESOSCOPIC  
SYSTEMS  
N.A. Ivanov, V.V. Scalozub
- PE11  
ON THE THEORY OF NON-LOCAL EFFECTS IN SUPERFLUID BOSE-  
GAS  
A.P. Ivashin, Yu.M. Poluektov
- PE12  
INDUCED CORRELATIONS IN MULTICOMPONENT DIFFUSIVE  
SYSTEMS  
O.V. Kliushnychenko and S.P. Lukyanets
- PE13  
EFFECTS OF ANOMALOUS DIFFUSIVE TRANSPORT CAUSED BY  
PARTICLE DISTINGUISHABILITY  
S.P. Lukyanets and O.V. Kliushnychenko

PE14

BOSE-FERMI-HUBBARD MODEL IN THE WEAK BOSON-FERMION  
COUPLING REGIME

T.S. Mysakovych

PE15

THE POLARIZATION PROPERTIES OF ATOMIC BOSE GAS IN A  
COHERENT STATE

Yu.M. Poluektov

PE16

ON THEORY OF ELECTRIC EFFECTS IN THE SECOND SOUND WAVE

Yu.M. Poluektov

PE17

GROSS-PITAEVSKII EQUATIONS FOR A CONDENSATE OF ATOMS  
WITH ELECTRONIC STRUCTURE

Yu.M. Poluektov

PE18

ON DYNAMICS OF INTERACTING BOSE GAS WITH RELAXATION

Yu.M. Poluektov

PE19

ON POLARIZATION OF HELIUM ATOMS BY ACCELERATION

Yu.M. Poluektov, V.N. Savchenko

PE20

FLUCTUATION EFFECTS IN  $^3\text{He}$ - $^4\text{He}$  SOLID MIXTURES BEFORE THE  
PHASE SEPARATION

T.N. Antsygina, K.A. Chishko, A.A. Lisunov, V.A. Maidanov,  
V.Yu. Rubanskyi, S.P. Rubets, E.Ya. Rudavskii

PE21

EFFECT OF CHANGE OF EXTERNAL PARAMETERS ON THE  
NUCLEATION AND GROWTH OF NEW PHASE CLUSTERS

R.V. Shapovalov, A.S. Abyzov, L.N. Davydov, V.V. Slezov

PE22

THE LIMIT SOLUBILITY RELATIONSHIPS BASED ON FRENKEL'S  
HETEROPHASE FLUCTUATIONS THEORY

R.V. Shapovalov, O.A. Osmayev

PE23

UNITARITY OF SINGLET AND TRIPLET SUPERFLUID STATES AT  
SCALAR AND VECTOR QUASIPARTICLE ENERGY MATRIX IN  
NUCLEAR MATTER

S. Shulga

PE25

ENERGY SPECTRUM AND DIAGRAMS OF STATES OF THE IONIC PAULI CONDUCTOR

I.V. Stasyuk, R.Ya. Stetsiv and O.A. Vorobyov

PE26

HYDRODYNAMIC THEORY OF PLASMA OSCILLATIONS IN THE PRESENCE OF ELECTRON DENSITY CORRELATIONS

A. Stupka

PE27

SIZE EFFECTS IN THE  $[N(CH_3)_4]_2Zn_{0.58}Cu_{0.42}Cl_4$  CRYSTALSS. Sveleba, I. Karpa, I. Katerynychuk, O. Semotyuk, I. Kunyo,

PE28

MAGNETIC SUSCEPTIBILITIES OF DENSE SUPERFLUID NEUTRON MATTER WITH SPIN-TRIPLET PAIRING FOR MODELS WITH CONVENTIONAL AND GENERALIZED SKYRME FORCES

A.N. Tarasov

PE29

TWO-DIMENSIONAL RANDOM LONG-RANGE CORRELATED DYNAMICAL SYSTEMS

A.V. Shkop, D.A. Tkanov, and O.V. Usatenko

PE30

LONG-RANGE CORRELATIONS IN THE GENETIC SEQUENCES

A.A. Maistrenko, S.S. Melnik, and O.V. Usatenko

PE31

UPPER ESTIMATES OF PERCOLATION THRESHOLDS IN THE SITE PROBLEM ON UNIFORM THREE-DIMENSIONAL CRYSTAL LATTICES

E.S. Antonova, Yu.P. Virchenko

## Thursday, September 01, 2011

### Plenary Session (Large Hall, KIPT)

**Chairman V.Guidi**

- 9-00 - 9-30    PHYSICAL BASIS OF ADVANCED FAST REACTOR  
 PLF1        WORKING IN NUCLEAR BURNING WAVE REGIME  
S.P. Fomin, A.S. Fomin, Yu.P. Mel'nik, V.V. Pilipenko, and N.F. Shul'ga
- 9-30 - 10-00    CRITICAL PHENOMENA AND CRITICAL DIMENSIONS  
 PLE3        V.F. Klepikov, A.V. Babich, S.V. Berezovsky, L.N. Kitcenko
- 10-00 - 10-30    GAMMA-RADIATION OF PULSARS AS A RESULT OF  
 PLB3        INVERSE COMPTON SCATTERING AT ACCELERATION  
 ELECTRONS IN A PULSAR VACUUM GAP  
V. M. Kontorovich, A.B. Flanchik
- 10-30 - 11-00    LINEAR AND NONLINEAR KINETIC EQUATIONS FOR  
 PLD5        STATE POPULATIONS OF QUANTUM SYSTEMS  
 E.G. Petrov
- 11-00 - 11-20    Coffee Break

### Section F (Large Hall, KIPT)

**Chairman Yu.Bolotin**

- 11-20 - 11-50    EXCITATION AND PROPERTIES OF LARGE AMPLITUDE  
 OF8        SOLITON NEAR FOIL AT LASER PULSE INTERACTION  
 WITH IT  
 A.M. Egorov, V.I. Masloy, I.N. Onishchenko, I.P. Yarovaya
- 11-50 - 12-20    DYNAMIC CHAOS IN LINEAR SYSTEMS  
 OF3        V.A. Buts
- 12-20 - 12-40    STOCHASTIC MECHANISM OF 1-10 GeV/c CHARGED  
 OF7        PARTICLES DEFLECTION BY A BENT CRYSTAL  
I.V. Kirillin, N.F. Shul'ga, and V.I. Truten'
- 12-40 - 13-00    DYNAMICS AND ENERGY SPECTRA OF DISCRETE  
 OF2        BREATHERS AND SOLITON COMPLEXES IN HIGHLY-  
 DISPERSIVE MEDIA  
M.M. Bogdan, O.V. Charkina, and D.V. Laptev

13-00 - 13-20 Making conference group photograph

13-30 - 14-30 Lunch

## **Section D (Large Hall, KIPT)**

**Chairman E.Petrov**

- 14-40 - 15-00 TO THE LANDAU THEORY OF RELAXATION PHENOMENA  
OD7 IN PLASMA  
A.I. Sokolovsky, V.N. Gorev, Z.Yu. Chelbaevsky
- 15-00 - 15-20 NON-EQUILIBRIUM PARTICLES DISTRIBUTION OF  
OD2 KOLMOGOROV-TYPE AND THEIR APPLICATIONS  
V.I. Karas`, V.E. Zakharov
- 15-20 - 15-40 FLUCTUATION THEORY OF HEAT RADIATION  
OD9 CONDUCTANCE  
Yu.P. Virchenko, M.A. Saprykin
- 15-40 - 16-00 SCHRÖDINGER EQUATION AS EQUATION FOR STABLE  
OD3 MOTION OF CLASSICAL PARTICLES IN FLUCTUATION-  
DISSIPATIVE ENVIRONMENT  
V.D.Rusov, K.A.Lukin and D.S. Vlasenko
- 16-00 - 16-20 Coffee Break

**Chairman K.Lukin**

- 16-20 - 16-40 TO THE AKHIEZER THEORY OF HEAT CONDUCTIVITY OF  
OD8 INSULATORS  
S.A. Sokolovsky
- 16-40 - 17-00 DOMAIN OF APPLICABILITY OF VARIOUS APPROACHES  
OD4 TO DESCRIPTION OF ELECTROMAGNETIC FIELD IN  
MEDIUM  
S.F. Lyagushyn, A.I. Sokolovsky, and Yu.M. Salyuk
- 17-00 - 17-20 ON THE LONG WAVE FLUCTUATIONS IN SYSTEMS OF  
OD5 PARTICLES INTERACTING WITH HYDRODYNAMIC MEDIA  
S.O.Nikolayenko and Yu.V.Slyusarenko

## Section E (Small Hall, KIPT)

**Chairman B.Lev**

- 11-20 - 11-50 ADVANCED BOGOLYUBOV MODEL OF IMPERFECT BOSE  
OE3 GAS AND SUPERFLUIDITY  
N.N. Bogolyubov, Jr., D.P. Sankovich
- 11-50 - 12-20 ON THE THEORY OF PHASE TRANSITIONS IN DENSE  
OE25 NEUTRON MATTER WITH GENERALIZED SKYRME  
INTERACTION AND ANISOTROPIC SPIN-TRIPLET PAIRING  
IN STRONG MAGNETIC FIELD  
A.N. Tarasov
- 12-20 - 12-40 DIFFUSION IN MOMENTUM OF CHARGED PARTICLES IN  
OE16 THE EXTERNAL PERIODIC FIELDS  
V.V. Ognivenko
- 12-40 - 13-00 RESONANCES IN SUPERFLUID  $^4\text{He}$  – DETECTOR AND  
OE19 HEATER –  $^4\text{He}$  SYSTEMS  
K.E. Nemchenko, S.Yu. Rogova
- 13-00 - 13-20 Making conference group photograph
- 13-30 - 14-30 Lunch

## Sections E (Small Hall, KIPT)

**Chairman V.Khodusov**

- 14-40 - 15-00 GIBBS EQUILIBRIUM AVERAGES AND BOGOLYUBOV  
OE21 MEASURE  
D. P. Sankovich
- 15-00 - 15-20 A NOVEL PHASE TRANSITION IN 2D ELECTRON SYSTEM  
OE15 OVER LIQUID  
K.A. Nasyedkin and V.E. Syvokon
- 15-20 - 15-40 NUMERICAL CALCULUS OF NEUTRON TEMPERATURE  
OE20 OSCILLATIONS IN CONTROLLED NUCLEAR SYSTEMS  
V.A.Rudakov, A.A.Vodyanitskii
- 16-00 - 16-20 Coffee Break

## Sections F (Small Hall, KIPT)

Chairman **A.Tarasov**

- 16-20 - 16-40 NONLINEAR ROTOR DYNAMICS OF 2D MOLECULAR ARRAY:  
OF11 FROM LIBRATION TO ROTATION  
V.A. Lykah and E.S. Syrkin
- 16-40 - 17-00 INFORMATION MODELING THE DYNAMICS OF THE  
OF9 QUANTUM STATE UNDER WEAK CONTINUOUS  
MEASUREMENTS  
S.I. Melnyk, S.S. Melnyk
- 17-00 - 17-20 DYNAMICAL CHAOS IN SUPER-SYMMETRICAL POTENTIALS  
OF1 WITH PERIODIC PERTURBATION  
V.P.Berezovoj, Yu.L.Bolotin, V.Yu.Gonchar, and M.I.Konchatnij
- 17-20 - 17-40 SELF-ORGANIZATION OF INHOMOGENEOUS COLLISIONAL  
OF13 MAGNETIZED PLASMA AND REGULARIZATION OF THE  
NONLINEAR THEORY OF PERTURBATION  
A.A. Vodyanitskii
- 17-40 - 18-00 METHOD OF MATRIX LINEARIZATION FOR NONLINEAR  
OF10 MODELS: "REACTION-DRIFT-DIFFUSION"  
V.N. Robuk
- 19-00 - 21-00 Conference Dinner

## Poster Sessions

### Section B

PB1

PERTURBATIVE ACCOUNT OF NUCLEAR SCATTERING AT VOLUME  
REFLECTION  
M.V. Bondarenco

PB2

CLASSIFICATION OF ANTIPROTON PROTON ANNIHILATION  
REACTIONS INTO HADRONIC CHANNELS  
A. Dbeyssi and E. Tomasi-Gustafsson

PB3

RESONANCE ANNIHILATION OF ULTRARELATIVISTIC ELECTRON  
PAIR IN THE LIGHT FIELD  
O.I. Denisenko, S.P. Roshchupkin

PB5

POLARIZATION PHENOMENA IN THE ELASTIC ELECTRON-NUCLEON SCATTERING

V.N. Maslov, and Yu.P. Stepanovsky

PB6

ABOUT THE POSSIBILITY TO MEASURE THE CIRCULAR POLARIZATION OF HIGH ENERGY PHOTON IN REACTION



G.I. Gakh, M.I. Konchatnij, I.S. Levandovskij and N.P. Merenkoy

PB7

ANALYSIS OF POLARIZATION OBSERVABLES AND RADIATIVE EFFECTS FOR THE REACTION  $\bar{p} + p \rightarrow e^+ + e^-$

G.I. Gakh, N.P. Merenkoy, and E. Tomasi-Gustafsson

PB8

POLARIZED PHOTON EMISSION FROM RELATIVISTIC PLANAR CHANNELLED POSITRONS IN CRYSTAL

M.G. Shatnev

PB9

FOCUSING OF PARAMETRIC X-RAY RADIATION EMITTED BY RELATIVISTIC PARTICLES MOVING IN A CRYSTAL ALONG BENT ATOMIC ROWS

N.F. Shul'ga and A.V. Shchagin

PB10

INCOHERENT BREMSSTRAHLUNG IN FLAT AND BENT CRYSTALS

V.V. Syshchenko, A.I. Tarnovsky and N.F. Shul'ga

PB11

ON THE COHERENT RADIATION BY RELATIVISTIC ELECTRONS AND POSITRONS IN CRYSTALS AT ULTRAHIGH ENERGIES

N.F. Shul'ga and V.I. Truten'

PB12

ON THE ANALOGY BETWEEN THE RADIATION PROCESSES IN COLLISIONS OF BUNCHES OF RELATIVISTIC CHARGED PARTICLES AND AT PASSAGE OF RELATIVISTIC PARTICLES IN MATTER

N.F. Shul'ga and D.N. Tyutyunnik

PB13

AHARONOV-BOHM EFFECT: ANALYSIS OF SCATTERING IN THE FORWARD DIRECTION

N.D. Vlasii

## Section C

PC1

ON GENERALIZED AFFINE GEOMETRIES, DYNAMICAL TORSION  
AND SPIN

D.J. Cirilo-Lombardo

PC2

LOW-ENERGY PARAMETERS OF THE NUCLEON-NUCLEON  
SCATTERING AND DEUTERON PROPERTIES

E.A. Dubovik, A.V. Shebeko

PC3

AN INTERACTION OF COSMIC HIGH-ENERGY PHOTONS AND  
LEPTONS WITH NEUTRALINO DARK MATTER

A.B. Flanchik

PC4

GENERAL ANALYSIS OF POLARIZATION EFFECTS IN  
 $\gamma + d \rightarrow d + \pi + \pi$  REACTION

G.I. Gakh, A.P. Rekalov, and A.G. Gakh

PC5

RARE DECAY  $B \rightarrow K^* l^+ l^-$  AND POSSIBLE EFFECTS OF NEW PHYSICS

A.Yu. Korchin, V.A. Kovalchuk, and D.O. Lazarenko

PC6

THE PARAMETRIC SPACE OF THE TWO-HIGGS DOUBLET MODEL  
AND SAKHAROV'S BARYOGENESIS SCENARIO

A.A. Kozhushko and V.V. Skalozub

PC7

COSMIC STRING DYNAMICS IN PP-WAVES BACKGROUND

S.N. Roshchupkin

PC8

SEMI-SIMPLE TENSOR EXTENSION OF THE (SUPER) POINCARÉ  
ALGEBRA

D.V. Soroka and V.A. Soroka

PC9

EXTENDED SEMI-SIMPLE GENERALIZATION OF THE SUPER-  
POINCARÉ ALGEBRA

D.V. Soroka and V.A. Soroka

PC10

EXTENSION OF THE  $Sp(2, C)$  GROUP FOR DESCRIPTION OF A THREE-  
BODY SYSTEM

I.V. Uvarov, A.P. Yaroshenko

PC11

EFFECTS OF CURVATURE ON THE FLAME IN FLAME CAPTURING  
TECHNIQUE

A.V. Zhiglo

PC12

THE STRUCTURE OF AN ACCRETION DISC IN A TYPE IA  
SUPERNOVA PROGENITOR SYSTEM

A.V. Zhiglo

## Section F

PF1

CHARACTER CALCULATIONS OF APPROXIMATE INTEGRALS OF  
MOTION FOR HAMILTONIAN SYSTEMS WITH  $n$  DEGREES OF  
FREEDOM

V.Ye. Bogachev and N.A. Chekanov

PF2

DYNAMIC CHAOS IN DYNAMIC SYSTEMS WITH ONE DEGREE OF  
FREEDOM

V.A. Buts

PF3

ON AN APPROACH TO GENERALIZING CLASSICAL NONLINEAR  
CONFORMAL ELECTRODYNAMICS

S. Duplij, G.A. Goldin, and V.M. Shtelen

PF4

LOCALIZATION OF REAL POLYMER CHAINS AT TWO HARD WALLS

I.V. Gerasimchuk and V.S. Gerasimchuk

- PF6  
CAUCHY'S THEOREM FOR DELONE-GEOMETRY CHAOS  
A.M. Gurin, A.N. Popov
- PF7  
ENTANGLEMENT DYNAMICS IN QUTRIT CHAIN  
E.A. Ivanchenko
- PF8  
GIANT BARKHAUZEN JUMPS AND STOCHASTIC RESONANCE IN  
BISTABLE FERROMAGNETIC COFENB ALLOY  
N.A. Azarenkov, V.G. Kirichenko, O.V. Kovalenko, V.N. Leonov
- PF9  
THE INFLUENCE OF SURFACE NANOLAYERS' STRUCTURE ON  
CHAOS IN YIG FILMS  
V.G. Kirichenko, O.V. Kovalenko, V.N. Leonov
- PF11  
ON ZONE STRUCTURE FORMATION OF TRANSVERSAL MOTION  
ENERGY LEVELS OF FAST CHARGED PARTICLE AT CHANNELING  
N.F. Shul'ga, A.V. Kozlov, V.A. Cherkaskiy
- PF12  
LONG-RANGE INTERACTION IMPACT ON NONLINEAR DYNAMICS  
N. Laskin
- PF13  
THEOREM ABOUT THE NUMBER AND STRUCTURE OF SINGULAR  
POINTS IN N-DIMENSIONAL DYNAMICAL SYSTEM OF LOTKA-  
VOLTERRA POPULATION DYNAMICS  
V.M. Moskovkin, Bilal N.E. Suleiman
- PF14  
DIFFUSE PART OF REFLECTION FROM STRUCTURED BORDER  
D.M. Naplekov
- PF15  
FEATURES OF TRANSITION FROM LAMINAR FLOW TO CLASSICAL  
AND QUANTUM TURBULENCE IN SUPERFLUID  $^4\text{He}$   
G. Sheshin, V. Chagovets, I. Grytsenko, E. Rudavskii, A. Zadorozhko
- PF16  
KRAMERS PROBLEM IN ANOMALOUS DYNAMICS  
O.Yu. Sliusarenko, V.Yu. Gonchar, A.V. Chechkin

PF17

DIFFUSION MECHANISM OF ALPHA DECAY, SPONTANEOUS FISSION, CLUSTER AND PROTON RADIOACTIVITY

V.D. Rusov, S.Cht. Mavrodiev, D. Vlasenko, M.A. Deliyergiyev

PF18

"QUANTUM" CHAOS AND STABILITY CONDITION OF SOLITON-LIKE WAVES OF NUCLEAR BURNING IN NEUTRON-MULTIPLICATING MEDIA

V.D. Rusov, E.P. Linnik, V.A. Tarasov, T.N. Zelentsova, I.V. Sharf, S.A. Chemezhenko, O.A. Byegunova, P.A. Molchynikov

## Friday, September 02, 2011

### Plenary Session (Large Hall, KIPT)

**Chairman K.Ispiryan**

9-00 - 9-30 ELECTRIC RESPONSE IN HE II UNDER EXCITATION OF  
PLE5 SECOND SOUND WAVES

A.S. Rybalko, V.A. Tikhii, A.S. Neoneta, and K.R. Zhekov

9-30 - 10-00 EFFECTS IN THE LINEAR RESPONSE OF ATOMIC BOSE-  
PLE6 EINSTEIN CONDENSATES TO AN EXTERNAL  
ELECTROMAGNETIC PERTURBATION

Yu.V. Slyusarenko and A.G. Sotnikov

10-00 - 10-30 AHARONOV-BOHM EFFECT IN SCATTERING OF HIGH-  
PLB5 ENERGY PARTICLES

Yu.A. Sitenko

10-30 - 11-00 GRAPHENE AND QUNTUM ELECTRODYNAMICS

PLA3 V.P. Gusynin

11-00 - 11-20 Coffee Break

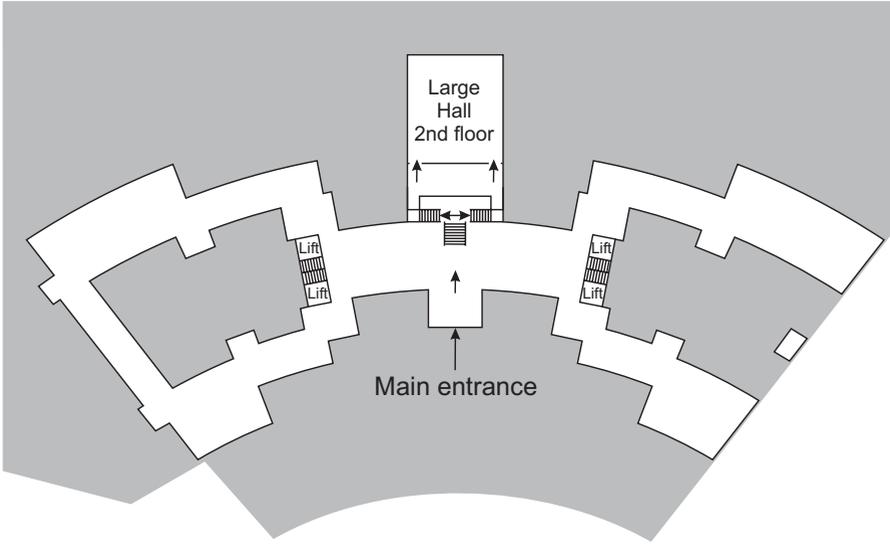
**Chairman E.Tomasi-Gustafsson**

11-20 - 11-40 ANGULAR DISTRIBUTION AND ASYMMETRIES IN  
PLC5 FLAVOR-CHANGING NEUTRAL-CURRENT DECAY

$B \rightarrow K^* l^+ l^-$

A.Yu. Korchin, V.A. Kovalchuk, and D.O. Lazarenko

- 11-40 - 12-00 2D ISING-HEISENBERG MODEL WITH QUARTIC  
PLE7 INTERACTION  
J.S. Valverde
- 12-00 - 12-20 GEOMETRIZATION OF INTERACTION  
PLA4 B.I. Lev
- 12-20 - 12-40 CAUSAL QUANTUM MECHANICS AND SOLVING THE  
PLA2 PROBLEM OF  $\Psi$ -WAVE REDUCTION  
P.I. Fomin
- 12-40 - 14-00 Farewell Coffee



Svobody Sq.

Fig. 1. Plan of the KNU building. Large Hall

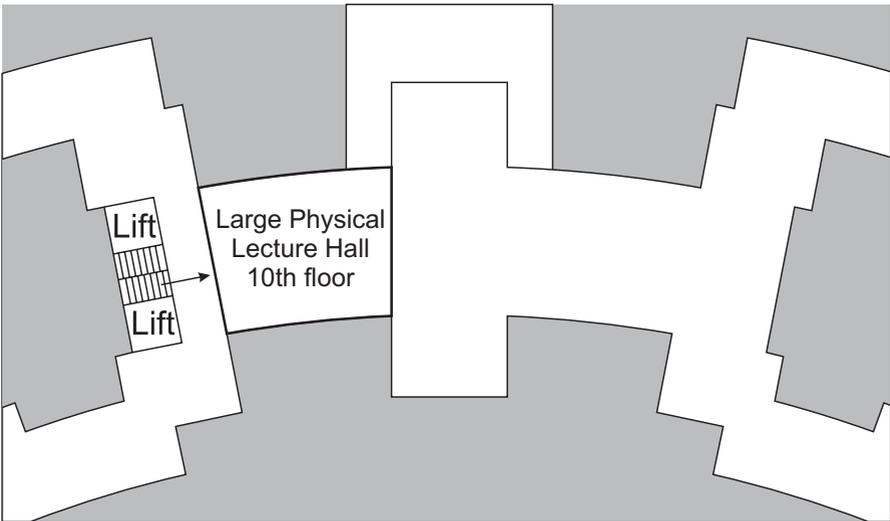


Fig. 2. Plan of the KNU building. Large Physical Lecture Hall

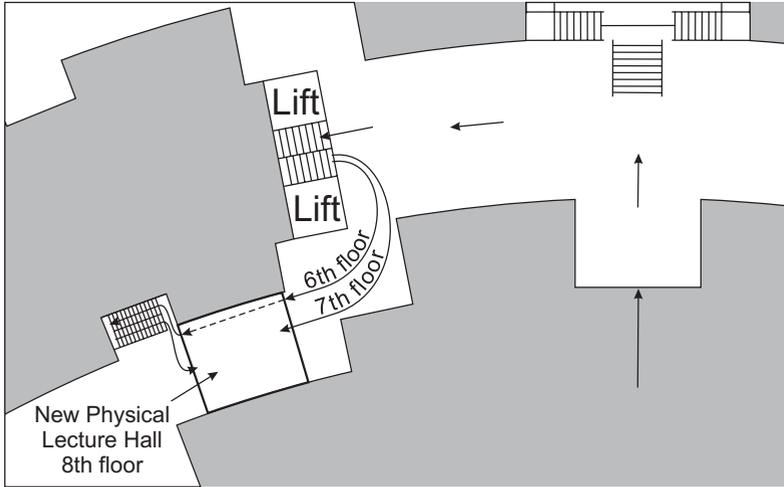


Fig. 3. Plan of the KNU building. New Physical Sinelnikov Lecture Hall

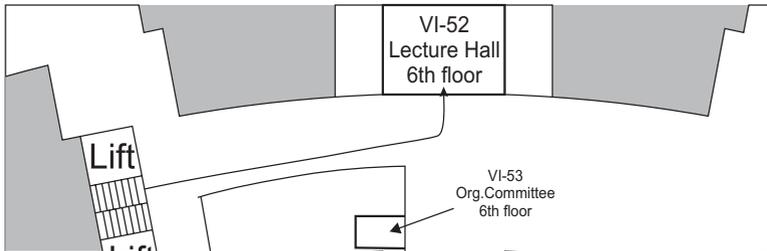


Fig. 4. Plan of the KNU building. VI-52 Tarapov Lecture Hall

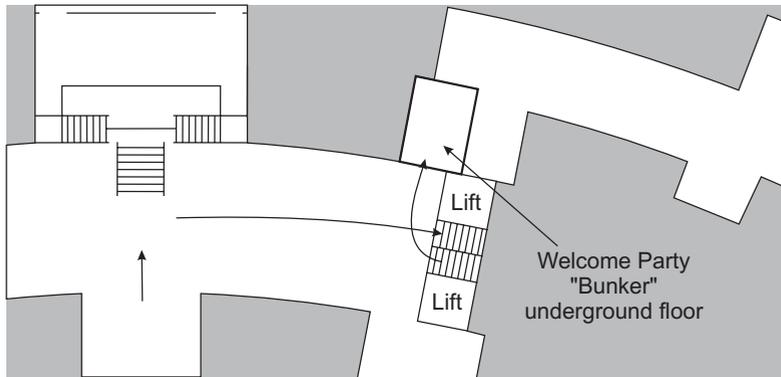


Fig. 5. Plan of the KNU building. "Bunker"

