

8th International Conference
**PHYSICS OF LIQUID MATTER:
MODERN PROBLEMS**



<http://plmmp.org.ua>

PROGRAMME

May 18-22, 2018

Taras Shevchenko National University of Kyiv

**Bogolyubov Institute for Theoretical Physics
of the National Academy of Sciences of Ukraine**

Kyiv, Ukraine

CONFERENCE CHAIRMAN:

Leonid Bulavin,

Academician of the National Academy of Sciences of Ukraine,

Taras Shevchenko National University of Kyiv

<https://sites.google.com/site/leonidbulavin/>

http://www.researchgate.net/profile/Leonid_Bulavin

CONFERENCE CO-CHAIRMAN:

Anatoly Zagorodny,

Academician of the National Academy of Sciences of Ukraine,

Bogolyubov Institute for Theoretical Physics

of the National Academy of Sciences of Ukraine

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CONFERENCE SECRETARIES:

Kostyantyn Cherevko, Sergiy Perepelytsya

Programme Summary

Date	Friday, May 18, 2018	Saturday, May 19, 2018	Sunday, May 20, 2018	Monday, May 21, 2018	Tuesday, May 22, 2018
Events	9:00 Registration	9:00–10:25 Oral reports	9:00–10:25 Oral reports	10:00 Workshop	10:00-17:00 Trip to Chernobyl Exclusion Zone
		10:25 – 11:10 Coffee break	10:25 – 11:10 Coffee break		
		11:10 – 12:50 Oral reports	11:10 – 12:50 Oral reports		
		12:50 – 13:45 Lunch	12:50 – 13:45 Lunch		
		13:45 – 14:30 Poster session 1	13:45 – 14:30 Poster session 3		
	15:00 Conference opening	14:30 – 15:55 Oral reports	14:30 – 19:00 Plenary session		
	15:30 Plenary session	15:55 – 16:40 Coffee break & Poster session 2			
19:00 Conference opening banquet	16:40 – 19:00 Oral reports				
Place	<i>Conference hall,</i> 36 Vasylkivska str.	<i>Faculty of Physics,</i> 4 Hlushkova ave.	<i>Faculty of Physics,</i> 4 Hlushkova ave.	<i>'Red Building',</i> 60 Volodymyrska Str.	

Conference topics

1. Water, Water Systems.
2. Liquid Systems Contained in the Human Body.
3. Properties of Classical Liquids: Atomic, Molecular, Ionic and Ionic-electronic Liquids (Molten Salts and Metals).
4. Quantum Liquids.
5. Binary Solutions. Polymer and Biopolymer Solutions.
6. Mixtures of Fullerenes and Nanotubes with Liquids.
7. Colloidal Systems: Nano-Diamonds, Magnetic Particles and Laponite Suspensions.
8. Nanodrops and Nanobubbles.
9. Phase Transitions and Critical Phenomena in Liquids and Liquid Systems.
10. Radiative Aspects of the Physics of Liquids, and Liquid Systems Contained in the Alive Organisms (**Workshop**).
11. Nonextensive Thermodynamics of Liquid Systems.

Oral Presentation Sessions

<i>sections:</i>	Room 100	Room 200	Room 209	Room 300	Room 500
May 19, Morning	1.1	7.1	4.1	9.1	3.1
May 19, Afternoon	11.1	2.1	4.2	9.2	3.2
May 20, Morning	11.2	7.2	5.1	9.3	6.1
May 20, Afternoon	Plenary session, Room 200				

THE CONFERENCE OPENING

May 18, 2018,
Vasilkovskaya str, 36; Confernce Hall

- 15:00 Welcoming speech by
Rector of Taras Shevchenko Kyiv National University,
Academician of NASU **Leonid Hubersky**
- 15:15 Welcoming speech by
Vice President of National Academy of Sciences of Ukraine,
Academician of NASU **Anatoliy Zagorodniy**
- 15:30 Welcoming speech by Prof. **Michel Rawiso**, on behalf of
the Scientific Committee

Plenary session

May 18

Vasilkovskaya str, 36; Confernce Hall

Chairman Prof. Peter Kopcansky (Slovak Republic)

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|-------------------|------|---------------------------|--|
| 15.30,
30 min. | PL-1 | Limei Xu (China) | CONNECTIVITY BETWEEN
STRUCTURE AND DYNAMICS
IN GLASS-FORMING LIQUIDS |
| 16.05,
30 min. | PL-2 | Vladimir Tsukruk
(USA) | DYNAMIC BEHAVIOR AND
DIRECTED ORGANIZED
ASSEMBLY OF BIOPOLYMER
COMPONENTS IN
ANISOTROPIC PHASES AND
SOLID STATE |

16.40, 30 min.	PL-3	Nicolas Giuseppone (France)	SUPRAMOLECULAR POLYMERS AS RESPONSIVE FUNCTIONAL MATERIALS
17.15, 30 min.	PL-4	C. N. Ramchand (India)	NOVEL MEDICAL AND BIOTECHNOLOGICAL APPLICATIONS OF MAGNETIC FLUIDS
17.50, 30 min.	PL-5	Victor L'vov (Israel)	HYDRODYNAMIC TURBULENCE OF SUPERFLUID HELIUM: BASIC IDEAS, EXPERIMENTS AND PHYSICAL MODELS
18.25, 30 min.	PL-6	Nikolai Lebovka (Ukraine)	SELF-ORGANIZATION AND STRUCTURAL TRANSITIONS IN SHAPE-ANISOTROPIC COLLOIDS

May 20

Room 200; Faculty of Physics; 4 Glushkova ave.

Chairman Prof. Oleg Lavrentovich (USA)

14.30, 30 min.	PL-7	Lars Pettersson (Sweden)	A TWO-STATE PICTURE OF WATER AND THE FUNNEL OF LIFE
15.05, 30 min.	PL-8	Wolffram Schroer, (Germany)	CRITICAL AND NON- CRITICAL FLUCTUATIONS IN MIXTURES OF IONIC LIQUIDS WITH ALCOHOLS IN THE VICINITY OF THE LIQUID-LIQUID PHASE TRANSITION

15.40, 30 min.	PL-9	Katarina Siposova, (Slovak Republic)	THE WAY TO FIGHT WITH THE AMYLOID PROTEIN AGGREGATES: ROLE OF NANOPARTICLES
16.15, 30 min.	PL-10	Jose M. Ortiz de Zarate (Spain)	APPLICATIONS OF FLUCTUATING HYDRODYNAMICS TO NON- EQUILIBRIUM STEADY STATES

16:45 - 17:05 - Coffee Break

Chairman Prof. Nikolai Lebovka (Ukraine)

17.10, 30 min.	PL-11	Oleg Lavrentovich (USA)	COMMAND OF SWIMMING BACTERIA BY ANISOTROPIC LIQUIDS
17.45, 30 min	PL-12	Wagner Alves (Brazil)	VIBRATIONAL SPECTROSCOPY APPLIED TO SOLUTION AND METAL/SOLUTION INTERFACE CHEMISTRY STUDIES
18.20, 30 min.	PL-13	Feng-Shou Zhang (China)	HEAVY ION INDUCED DNA STRUCTURE CHANGES IN A LIQUID ENVIRONMENT
18.55, 30 min.	PL-14	Nicolay Malomuzh (Ukraine)	MD-MODELING OF THE INTERMEDIATE SCATTERING FUNCTION FOR ARGON-LIKE LIQUIDS AND WATER

Section 1. Water, Water Systems.

Session 1

May 19, 2018,
Room 100; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Lars Pettersson (Sweden),

9.00- 9.30	1-1.O	M. Timko, M. Molcan, L. Balejcikova, P. Kopcansky, V.I. Petrenko	HYPERTHERMIA EFFECT IN VARIOUS IRON OXIDES
9.30- 10.00	1-2.O	P. Vanraes, A. Nikiforov, C. Leys, A. Bogaerts	THE DISTINCT PROPERTIES OF A WATER ELECTRODE IN CONTACT WITH AN AC POWERED DIELECTRIC BARRIER MICRO- DISCHARGE
10.00- 10.25	1-3.O	V.I. Bulavin, I.N. Vyunnik	DIFFUSION AND MICROSCOPIC CHARACTERISTICS OF LENGTH, TIME AND RATE OF TRANSFER OF SINGLY CHARGED IONS IN INFINITELY DILUTE SOLUTIONS IN MONOETHANOLAMINE

10:25 - 11:10 - Coffee Break

11.10- 11.40	1-4.O	V.E. Chechko, V.Y. Gotsulskiy, N.P. Malomuzh	THE SIMILARITY AND DIFFERENCES IN THE BEHAVIOR OF THE THERMODYNAMIC PROPERTIES OF MONOHYDRIC ALCOHOLS, WATER AND ARGON ON THEIR COEXISTENCE CURVES
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Section 2. Liquid Systems Contained in the Human Body.

Session 2

May 19, 2018,
Room 200; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Norbert Kucerka (Slovak Republic)

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| 14.30-
15.00 | 2-1.O | T.D. Pardis,
M.T. Dove,
R.W. Pickersgill | THE EFFECT OF WATER ON
THE FLEXIBILITY OF A
SMALL PEPTIDE EXPLORED
WITH MOLECULAR
DYNAMICS SIMULATIONS |
| 15.00-
15.30 | 2-2.O | L.N. Lisetski,
O.V. Vashchenko,
L.V. Budianska,
N.A. Kasian,
A.O. Sadchenko | JOINT ACTION OF DRUGS IN
MODEL PHOSPHOLIPID
MEMBRANES |
| 15.30-
15.55 | 2-3.O | W.-S. Kuo | EFFICIENT TWO-PHOTON
LUMINESCENCE FOR
BIOIMAGING USING
POLYMER CONJUGATIONS
OF GRAPHENE QUANTUM
DOTS BASED MATERIALS |
| 15:55 - 16:40 - Coffee Break | | | |
| 16.40-
17.10 | 2-4.O | A. Vasilev,
A. Chalyi,
E. Zaitseva | NONLINEAR KINETIC
MODELS OF CELL-TO-CELL
COMMUNICATION |

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|-----------------|-------|--|---|
| 17.10-
17.40 | 2-5.O | L.V. Batyuk,
N.N. Kizilova | FREE AND CONFINED
WATER AT THE
ERYTHROCYTE
MEMBRANES OF HEALTHY
AND INVALID INDIVIDUALS:
A MICROWAVE
DIELECTROMETRY STUDY |
| 17.40-
18.10 | 2-6.O | A. A.Guslisty,
N. P.Malomuzh,
A. I.Fisenko | OPTIMAL TEMPERATURE
FOR HUMAN LIFE ACTIVITY |

Section 3. Properties of Classical Liquids: Atomic, Molecular, Ionic and Ionic-electronic Liquids (Molten Salts and Metals).

Session 3.1

May 19, 2018,
Room 500; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Limei Xu (China)

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|-------------|-------|---|--|
| 9.00-9.30 | 3-1.O | A.V. Stryutsky,
V.F. Korolovych,
O.A. Sobko,
M.A. Gumenna,
N.S. Klymenko,
V.V. Shevchenko,
V.V. Tsukruk | SYNTHESIS OF POLY(IONIC LIQUID)S OF LINEAR AND HYPERBRANCHED ARCHITECTURE CONTAINING THERMALLY RESPONSIVE MACROCATIONS |
| 9.30-10.00 | 3-2.O | O.N. Kalugin,
Y.I. Filatov,
B.A. Marekha,
A. Idrissi,
A.K. Adya | TRANSLATIONAL AND ROTATIONAL DIFFUSION OF IMIDAZOLIUM BASED IONIC LIQUIDS IN ACETONITRILE |
| 10.00-10.25 | 3-3.O | V.N. Gorev,
A.I. Sokolovsky | ON THE DEFINITIONS OF THE HYDRODYNAMIC REDUCED DESCRIPTION PARAMETERS BASED ON A NONLOCAL COLLISION INTEGRAL |

10:25 - 11:10 - Coffee Break

11.10- 3-4.O A.V. Riabchunova ION ASSOCIATION AND
11.40 , V.M. Karabtsova, SOLVATION IN THE
O.N. Kalugin SOLUTIONS OF
IMIDAZOLIUM-BASED ROOM
TEMPERATURE IONIC
LIQUIDS IN PROPYLENE
CARBONATE

Section 3. Properties of Classical Liquids: Atomic, Molecular, Ionic and Ionic-electronic Liquids (Molten Salts and Metals).

Session 3.2

May 19, 2018,
Room 500; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Vladimir Tsukruk (USA)

14.30- 15.00	3-6.O	T. Bryk, T. Demchuk, S. Shestopalko	SPECIFIC FEATURES OF STRUCTURE AND DYNAMICS OF LIQUID METALS AT HIGH PRESSURES
15.00- 15.30	3-7.O	Y. Plevachuk, V. Sklyarchuk, O. Tkach, Š.S. P., P. Švec, A. Yakymovych	INFLUENCE OF NANOPARTICLES ON THERMOPHYSICAL PROPERTIES OF Sn–Ag–Cu ALLOYS
15.30- 15.55	3-8.O	V.T. Shvets	METALLIC HYDROGEN AS AN ALKALINE METAL

15:55 - 16.40 - Coffee Break

16.40- 17.10	3-9.O	O.M. Yakovenko, V.P. Kazimirov, O.S. Roik, V.E. Sokol'skii	LOCAL ATOMIC ORDER IN AL-GE-FE(NI) MELTS WITH LOW CONTENT OF TRANSITION ELEMENT
17.10- 17.40	3-10.O	Y. Plevachuk, V. Sklyarchuk, M. Dufanets	STRUCTURE-SENSITIVE PROPERTIES OF HIGH- ENTROPY ALLOYS

17.40- 3-11.O O. Hrinishin,
18.10 I. Kravchuk,
A. Sokolovsky

ON THE DEPENDENCE OF
THE PLASMA HEAT
CONDUCTIVITY ON THE
TEMPERATURE

Section 4. Quantum Liquids

Session 4.1

May 19, 2018,
Room 209; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Victor L'vov (Israel)

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|-----------------|-------|--|---|
| 9.00-
9.30 | 4-1.O | A.S. Peletminskii,
S.V. Peletminskii,
Y.V. Slyusarenko | BOSE-EINSTEIN
CONDENSATION OF
HETERONUCLEAR FERMI-
FERMI MOLECULES IN A
TWO-SPECIES FERMI GAS |
| 9.30-
10.00 | 4-2.O | S. Sokolovsky,
A. Sokolovsky | TO TEMPERATURE
DEPENDENCE OF HEAT
CONDUCTIVITY AND
VISCOSITY IN POLARON
HYDRODYNAMICS |
| 10.00-
10.25 | 4-3.O | A. Pomyalov | EVOLUTION OF A
TURBULENT PLUG IN A
CHANNEL COUNTERFLOW
OF SUPERFLUID 4HE |

10:25 - 11:10 - Coffee Break

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|-----------------|-------|---|--|
| 11.10-
11.40 | 4-4.O | A. Rovenchak | NONADDITIVE
GENERALIZATIONS OF
QUANTUM ENSEMBLES |
| 11.40-
12.10 | 4-5.O | S.I. Shevchenko,
A.M. Konstantino
v | POSSIBILITY OF
GENERATION OF A GIANT
ELECTROMOTIVE FORCE BY
THIRD SOUND |

Section 4. Quantum Liquids

Session 4.2

May 19, 2018,
Room 209; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Alexander Sokolovsky (Ukraine)

14.30- 4-6.O V. Khodusov ELECTRO-MECHANICAL
15.00 PROPERTIES OF SUPERFLUID
HELIUM

15.00- 4-7.O A.N. Tarasov ABOUT CALCULATION OF
15.30 SPECIFIC HEAT FOR DENSE
SUPERFLUID NEUTRON
MATTER WITH ANISOTROPIC
SPIN-TRIPLET P-WAVE
PAIRING AT LOW
TEMPERATURES

15.30- 4-8.O M. Tomchenko ONE-DIMENSIONAL SYSTEM
15.55 OF POINT BOSONS: NEW
SOLUTIONS

15:55 - 16:40 - Coffee Break

16.40- 4-9.O K.G. Zloshchastie KORTEWEG FLUID AS
17.10 v EFFECTIVE DESCRIPTION OF
CONDENSATE-LIKE
SYSTEMS

Section 5. Binary Solutions. Polymer and Biopolymer Solutions.

Session 5

May 20, 2018,
Room 209; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Myroslav Holovko (Ukraine)

9.00- 9.30	5-1.O	S. Perepelytsya	HYDRATION OF DNA COUNTERIONS: A MOLECULAR DYNAMICS STUDY
9.30- 10.00	5-2.O	N. Kučerka	MODEL BIO-MEMBRANES STUDIED BY NEUTRON DIFFRACTION
10.00- 10.25	5-3.O	M.Y. Sushko, A.K. Semenov	EFFECTIVE ELECTRICAL CONDUCTIVITY OF COMPOSITE POLYMER ELECTROLYTES

10:25 - 11:10 - Coffee Break

Chairman: Dr. Norbert Kucerka (Slovak Republic)

11.10- 11.40	5-4.O	R. Dinzhos, N. Fialko, J. Sherenkovskiy, N. Meranova, R. Navrodsкая, V. Makhrovskiy	MODELING OF STRUCTURAL RELAXATION IN THE GLASS TRANSITION OF POLYMER NANOCOMPOSITES FILLED WITH CARBON NANOTUBES
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11.40- 12.10	5-5.O	P. Pisklova, A. Skuratovska, E. Dukhopelnikov	EFFECT OF CHLOROPHYLLIN ON INTERACTION OF DYES WITH DNA
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Section 6. Mixtures of Fullerenes and Nanotubes with Liquids.

Session 6

May 20, 2018,
Room 500; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Laszlo Almasy (Hungary),
Prof. Longin Lisetski (Ukraine)

9.00- 9.30	6-1.O	N.O. Mchedlov- Petrossyan	COLLOID CHEMISTRY OF FULLERENES: HYDROSOLS, ORGANOSOLS, AND UNUSUAL 'MOLECULAR' SOLUTIONS
9.30- 10.00	6-2.O	O. Kyzyma, K. Siposova, T. Nagorna, O. Ivankov, L. Almasy, V. Garamus, M. Avdeev, L. Bulavin	SPECIFIC FEATURES OF FULLERENES IN BINARY MIXTURES: NEW OPPORTUNITIES FOR BIOMEDICINE
10.00- 10.25	6-3.O	V.I. Borysiuk, S.G. Nedilko, Y.A. Hizhnyi, A.A. Shyichuk	INFLUENCE OF WATER ON ADSORPTION OF SIMPLE MOLECULAR ANIONS BY NANOSTRUCTURED CARBON MATERIALS

10:25 - 11.10 - Coffee Break

11.10- 11.35	6-4.O	V.Y. Chernyak, V.V. Iukhymenko, O.A. Nedybaliuk, K.V. Iukhymenko, O.V. Kolomiiets, Y.M. Samchenko, A.M. Goriachko	GENERATION OF SILVER NANOPARTICLES IN A PLASMA-LIQUID SYSTEM WITH A SECONDARY DISCHARGE
11.35- 12.00	6-5.O	K.Y. Khanchych, V.Y. Gotsulskiy, O.Y. Khliyeva, V.P. Zhelezny	OPTICAL PROPERTIES OF NANOFLUID OF O-XYLENE / FULLERENES C60
12.00- 12.25	6-6.O	N.V. Kurnosov, V.S. Leontiev, V.A. Karachevtsev	CARBON NANOTUBES IN WATER SUSPENSION WITH DNA: PHOTOLUMINESCENCE ENHANCEMENT INDUCED BY ANTIOXIDANT GLUTATHIONE
12.25- 12.50	6-7.O	L.N. Lisetski, S.S. Minenko, A.N. Samoilov, N.I. Lebovka	LIQUID CRYSTAL DISPERSIONS OF ANISOMETRIC NANOPARTICLES: SPECTROPHOTOMETRY AND DIFFERENTIAL SCANNING CALORIMETRY STUDIES

Section 7. Colloidal Systems: Nano-Diamonds, Magnetic Particles and Laponite Suspensions.

Session 7.1

May 19, 2018,
Room 200; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Philip Camp (United Kingdom),

9.00- 9.30	7-1.O	P. Kopcansky, N. Tomasovicova, V. Gdovinova, M. Timko, J. Majorosova, N. Eber, T. Toth- Katona, J. Jadzyn	FERRONEMATICS- LIQUID CRYSTALLINE SENSORS OF MAGNETIC FIELDS
9.30- 10.00	7-2.O	O.V. Tomchuk, L.A. Bulavin	STUDY OF GROWTH OF THE TETRAETHOXY SILANE CLUSTERS IN BASIC ETHANOL/WATER SOLUTIONS: SANS CONTRAST VARIATION STUDY
10.00- 10.25	7-3.O	K.N. Plutenko, D.A. Pesina, E.V. Dukhopelnik ov	KINETICS OF INTERACTION BETWEEN DOXORUBICIN AND MAGNETITE NANOPARTICLES

10:25 - 11:10 - Coffee Break

11.10- 11.35	7-4.O	Y. Shlapa, S. Solopan, A. Belous	MANGANITE NANOPARTICLES OF La _{1-x} Sr _x MnO ₃ AND MAGNETIC FLUIDS BASED ON THEM
11.35- 12.00	7-5.O	S.I. Shulyma, B.M. Tanygin, V.F. Kovalenko, M.V. Petrychuk	OPTICAL EXTINCTION MEASUREMENTS USING FOR CLUSTER STRUCTURE CONTROL IN FERROFLUID LAYERS
12.00- 12.25	7-6.O	O.P. Artykulnyi, V.I. Petrenko, L. Almasy, O.I. Ivankov, M.V. Avdeev, .A. Bulavin	IMPACT OF POLY (ETHYLENE GLYCOL) ADDITION ON THE STRUCTURE AND INTERACTION PARAMETERS OF ANIONIC SURFACTANT MICELLAR SOLUTION
12.25- 12.50	7-7.O	S. Barany, M. Manilo, N. Lebovka	ELECTROPHORESIS OF HIGHLY ANISOMETRIC PARTICLES IN AQUEOUS SUSPENSIONS: WEAK AND STRONG ELECTRIC FIELDS

Section 7. Colloidal Systems: Nano-Diamonds, Magnetic Particles and Laponite Suspensions.

Session 7.2

May 20, 2018,
Room 200; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Nikolai Lebovka (Ukraine)

9.00-9.30	7-8.O	V.S. Farafonov, N.O. Mchedlov-Petrossyan, A.V. Lebed	LOCUS AND LOCAL ENVIRONMENT OF TWO DYES IN SURFACTANT MICELLES FROM MOLECULAR DYNAMICS SIMULATIONS
9.30-10.00	7-9.O	A.V. Kyrychenko, M.M. Blazhynska, M.V. Slavgorodsk a, O.N. Kalugin	MOLECULAR DYNAMICS SIMULATION OF SILVER NANOPARTICLES FUNCTIONALIZED WITH STIMULI-RESPONSIVE POLYMERS
10.00-10.25	7-10.O	P.A. Selyshchev, V.I. Petrenko, L.A. Bulavin	DECOMPOSITION OF COLLOIDAL SUSPENSIONS OF DIELECTRIC NANOPARTICLES IN DIELECTRIC LIQUID BY EXTERNAL ELECTRIC FIELD

10:25 - 11:10 - Coffee Break

Chairman: Prof. Nikolay Mchedlov-Petrosyan (Ukraine)

11.10- 11.35	7-11.O	M.Y. Sushko	A MANY-PARTICLE THEORY OF THE EFFECTIVE ELECTRICAL PROPERTIES OF DISPERSED SYSTEMS
11.35- 12.00	7-12.O	A. Semenov	IS THE CLASSICAL DIFFERENTIAL SCHEME FOR PERMITTIVITY OF EMULSIONS CONSISTENT?
12.00- 12.25	7-13.O	V.E. Sokol'skii, V.P. Kazimirov, O.S. Roik	MICROHETEROGENEOUS STRUCTURE OF OXIDE MELT
12.25- 12.50	7-14.O	O.K. Kuvandikov, U.E. Nurimov, K.A. Kayumov	INVESTIGATION OF THE VISCOSITY OF MAGNETIC FLUIDS
12.50- 13.15	7-15.O	A. Dorosh, A. Shevchuk, O. Gutsol, V. Baglay	HYSTERESIS OF PHYSICAL PROPERTIES OF THIXOTROPIC LIQUID INKING SYSTEM IN A PRINTING MACHINE OF ROLE AND INTAGLIO PRINTING METHODS

Section 9. Phase Transitions and Critical Phenomena in Liquids and Liquid Systems.

Session 9.1

May 19, 2018,
Room 300; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Alexander Chalyi (Ukraine)

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|-----------------|-------|---|--|
| 9.00-
9.30 | 9-1.O | O. Bakai | A MESOSCOPIC THEORY OF HETEROPHASE FLUID IN APPLICATION TO THE GAS-LIQUID AND METAL-NONMETAL TRANSITIONS IN EXPANDED MERCURY |
| 9.30-
10.00 | 9-2.O | L.A. Bulavin,
O.I. Bilous | ANOMALOUS DYNAMIC PROPERTIES OF BINARY SOLUTIONS NEAR THEIR SINGULAR POINTS |
| 10.00-
10.25 | 9-3.O | O.A. Dobush,
M.P. Kozlovskii,
I.V. Pylyuk | THE EQUATION OF STATE IN THE SUPERCRITICAL REGION AND THE WIDOM LINE OF A FLUID MODEL |

10:25 - 11:10 - Coffee Break

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|-----------------|-------|--------------------------------|---|
| 11.10-
11.35 | 9-4.O | O.I. Gerasymov,
A.Y. Spivak | LANDAU-GINSBURG KINETICS OF GRANULAR FLUID COMPACTION |
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|-----------------|-------|---|---|
| 11.35-
12.00 | 9-5.O | A.V. Khomenko,
B.N.J. Persson,
M.A. Khomenko | NONLINEAR DYNAMICS OF
ICE SURFACE SOFTENING AT
FRICTION WITH A GLANCE
OF NOISE |
| 12.00-
12.25 | 9-6.O | A.I. Krivchikov,
O.A. Korolyuk,
O.O. Romantsova,
Y.V. Horbatenko | LOW-TEMPERATURE
GLASSY ANOMALIES IN
THERMAL PROPERTIES OF
MOLECULAR SOLIDS |

Section 9. Phase Transitions and Critical Phenomena in Liquids and Liquid Systems.

Session 9.2

May 19, 2018,
Room 300; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Jose M. Ortiz de Zarate (Spain)

14.30- 15.00	9-7.O	J.O. Sindt, A.J. Alexander, P.J. Camp	NON-PHOTOCHEMICAL LASER-INDUCED NUCLEATION
15.00- 15.30	9-8.O	K. Haponenko, A. Sokolovsky	TO LANDAU DEFINITION OF EFFECTIVE HAMILTONIAN IN HIS THEORY OF PHASE TRANSITION
15.30- 15.55	9-9.O	V.N. Bondarev	SELF-CONSISTENT STATISTICAL THEORY OF CRITICAL PHENOMENA IN LENNARD-JONES FLUID
15:55 - 16:40 - Coffee Break			
16.40- 17.10	9-10.O	M.T. Horsch, O. Dobzhanskyi, S. Vafaeyan	COMPUTATIONAL MOLECULAR ENGINEERING BY MULTICRITERIA FORCE- FIELD OPTIMIZATION
17.10- 17.40	9-11.O	V.N. Kondratyev	SELF-ORGANIZED CRITICAL SUPERFERROMAGNETIC DYNAMICS

17.40- 9-12.O O. Adiguzel
18.10

THE ROLE OF THERMAL
TREATMENTS IN MEMORY
BEHAVIOUR OF SHAPE
MEMORY ALLOYS

Section 9. Phase Transitions and Critical Phenomena in Liquids and Liquid Systems.

Session 9.3

May 20, 2018,
Room 300; Faculty of Physics; 4 Glushkova ave.

Chairman: Prof. Wolfram Schroer (Germany)

9.00- 9.30	9-13.O	V.A. Lykah, E.S. Syrkin	THE MODEL OF LIQUIDS AS SOLIDS WITH THE SHEAR INSTABILITY
9.30- 10.00	9-14.O	N. Fialko, A. Nosovskiy, J. Sherenkovskiy, V. Prokopov, T. Vlasenko, N. Meranova, S. Alioshko, I. Sharaevskiy, L. Zimin, S. Stryzheus	CFD MODELLING OF PSEUDOCRITICAL TRANSITIONS OF SUPERCRITICAL WATER FLOWING IN CHANNELS
10.00- 10.25	9-15.O	Y.G. Rudnikov	SYMMETRIC ALGEBRA OF FLUCTUATION VARIABLES FOR QUANTITATIVE DESCRIPTION OF EXPERIMENTAL DATA NEARBY TO THE CRITICAL POINT

10:25 - 11:10 - Coffee Break

11.10- 11.35	9-16.O	M.V. Ushcats, S.Y. Ushcats, L.A. Bulavin, V.M. Sysoev	EVIDENCE FOR THE CONDENSATION IN THE DIVERGENCE REGION OF ACTIVITY EXPANSIONS
11.35- 12.00	9-17.O	J.S. Brown, J.J. Smith, N.C. Surname, I.U. Vakarelski, D.Y.C. Chan, S.T. Thoroddsen	THE TITLE OF THE ABSTRACT (UPPER CASE LETTERS) BOILING TRANSITIONS ON TEXTURED SUPERHYDROPHOBIC SURFACES
12.00- 12.25	9-18.O	L.N. Yakub, O.S. Bodiul	SOLIDIFICATION LINE AND PROPERTIES OF LIQUID METHANE AT HIGH PRESSURES

Section 11. Nonextensive Thermodynamics of Liquid Systems.

Session 11.1

May 19, 2018,
Room 100; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Mykhailo Kozlovskii (Ukraine)

- | | | | |
|-----------------|--------|---|---|
| 14.30-
15.00 | 11-1.O | K. Termentzidis,
M. Isaev | MICROSCOPIC STUDY OF
SOLID/LIQUID INTERFACES
WITH MOLECULAR
DYNAMICS |
| 15.00-
15.30 | 11-2.O | B. Nsom,
F. Ghaemizadeh,
L. Ramifidisoa | STABILITY OF SHEAR-
THINNING FLUID IN OPEN-
CHANNEL |
| 15.30-
15.55 | 11-3.O | G. Tsagkaropoulo
u, C.P. Warrens,
P.J. Camp | MOLECULAR SIMULATIONS
OF SURFACTANT
ADSORPTION AND SELF-
ASSEMBLY UNDER STATIC
AND SHEAR CONDITIONS |

15:55 - 16:40 - Coffee Break

- | | | | |
|-----------------|--------|---|--|
| 16.40-
17.10 | 11-4.O | I.S. Vovchynskiy,
O.O. Syrota,
M.E. Lebedeva,
O.N. Kalugin | MOLECULAR MODELLING
ON 1-1'-
SPIROBIPYRROLIDINIUM
TETRAFLUOROBORATE/
ACETONITRILE SOLUTIONS
IN MULTI-WALLED CARBON
NANOTUBES |
|-----------------|--------|---|--|

17.10- 11-5.O A.V. Chalyi
17.40

SURFACE TENSION IN BULK AND CONFINED LIQUIDS

Section 11. Nonextensive Thermodynamics of Liquid Systems.

Session 11.2

May 20, 2018,
Room 100; Faculty of Physics; 4 Glushkova ave.

Chairman: Dr. Konstantinos Termentzidis (France)

9.00- 9.30	11-6.O	R.F.G. Apóstolo, P.J. Camp, B.N. Cattoz, P.J. Dowding, A.D. Schwarz	MOLECULAR SIMULATIONS OF FUNCTIONALISED COPOLYMERS IN BULK AND IN CONFINEMENT: UNCOVERING THE ROLE OF FUNCTIONAL-GROUP DISTRIBUTION
9.30- 10.00	11-7.O	K.A. Chalyy, L.A. Bulavin, A.V. Chalyi	EFFECTS OF DIMENSIONALITY CROSSOVER ON LIGHT AND NEUTRON SCATTERING IN LIQUIDS AT RESTRICTED GEOMETRY
10.00- 10.25	11-8.O	F. Chen	SURFACE ABSORPTION OF LIQUID AT THE AIR-LIQUID INTERFACE

10:25 - 11:10 - Coffee Break

11.10- 11.35	11-9.O	M. Holovko, T. Patsahan, M. Hvozď	ISOTROPIC-NEMATIC TRANSITION AND DEMIXING BEHAVIOUR IN BINARY MIXTURES OF HARD SPHERES AND HARD SPHEROCYLINDERS CONFINED IN DISORDERED POROUS MEDIUM
11.35- 12.00	11- 10.O	H.-J Mögel, Wahab, T. Bier, P. Schiller	WATER IN INTERLAYERS AND MICROPORES IN HARDENED CEMENT PASTES
12.00- 12.25	11- 11.O	D.O. Novikov, V. Moiseenko, K. Donchik, D. Abrosimova, T.V. Chernozhuk, O.N. Kalugin	INTERPARTICLE INTERACTIONS AND DYNAMICS IN SOLUTIONS OF COPPER (II), COBALT (II) AND ZINC (II) TETRAFLUOROBORATES IN ACETONITRILE AT 5-55 °C

Workshop. Radiative Aspects of the Physics of Liquid State.

May 21, 2018, 60 Volodymyrska Str.

Chairmen:

Academician of the National Academy of Sciences of Ukraine
Leonid Bulavin (Taras Shevchenko National University of Kyiv, Ukraine)

Corresponding member of the National Academy of Sciences of Ukraine
Anatoly Nosovsky (Institute for Safety Problems of Nuclear Power Plants of National Academy of Sciences of Ukraine, Ukraine)

Professor **Feng-Shou Zhang** (College of Nuclear Science and Technology, Beijing Normal University, China)

9.00-9.30	10-1.O	P. Bian, L. Wu	THE RADIO-ADAPTIVE RESPONSES IN LIQUID BIOLOGICAL SYSTEM OF CAENORHABDITIS ELEGANS MEDIATED BY INTRA- AND INTER BYSTANDER SIGNALS
9.30-10.00	10-2.O	V.K. Koltover, Y.A. Kutlakhmedo v	NUCLEAR SPIN CATALYSIS AND STABLE MAGNETIC ISOTOPES AS NEW TOOLS FOR ANTI-RADIATION MEDICINE
10.00-10.25	10-3.O	L.N. Lisetski	BIOEQUIVALENT DETECTORS OF IONIZING RADIATION AND BIOLOGICALLY ACTIVE UV

10:25 - 11:10 - Coffee Break

11.10- 11.35	10-4.O	Y.V. Slyusarenko, S.O. Nikolayenko	ON THE EFFECT OF EXTERNAL STOCHASTIC FIELD ON SYSTEMS OF PARTICLES INTERACTING WITH MULTIPLYING AND CAPTURING HYDRODYNAMIC MEDIA
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POSTER SESSIONS

Poster session 1 (May 19, 2018; 10:25 - 11:10)

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|-------|---|---|
| 1-1.P | A. Jumabaev,
V.Y. Pogorelov,
H.A. Hushvaktov,
A.A. Absanov,
B. Kuliev | RAMAN SPECTRA AND AB
INITIO CALCULATION OF A
STRUCTURE OF AQUEOUS
SOLUTIONS OF LIQUID WATER |
| 1-2.P | N. Gaiduk,
N. Red'kin,
A. Yakunov | APPLICATION OF HEAT-
SENSITIVE FLUORESCENT DYES
TO DETERMINE THE SPATIAL
AND TEMPORAL TEMPERATURE
DISTRIBUTION IN LIQUID MEDIA |
| 1-3.P | O.V. Vashchenko,
N.A. Kasian,
L.V. Budianska,
V.A. Pashynska,
M.V. Kosevich,
A. Gomory,
D.S. Sofronov,
L.N. Lisetski | CALCIUM AND MAGNESIUM
STEARATES VS. STEARIC ACID:
DETAILS OF COMPLEXES
FORMATION AND
MEMBRANOTROPIC ACTION |
| 1-4.P | Y.M. Barabash,
M.A. Zabolotny | TIME AND STOCHASTIC
PARAMETERS OF THE
DISRIUTION FUNCTION OF THE
PROBABILITY DENSITY OF THE
SPECTRA OF CAPILLARY WAVES
OF NEAR SURFACE FLUID
LAYERS |

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|--------|---|--|
| 1-5.P | B.I. Basok,
B.V. Davydenko,
A.V. Timoshchenko | DEFORMATION OF A LIQUID
PARTICLE WHICH IS MOVING IN
A NON-MIXED VISCOUS
MEDIUM |
| 1-6.P | B. Yeleussinov,
G. Prmaganbetova,
O. Ormanov,
O. Makhanbetov,
E. Rudnikov | THE VISCOELASTIC AND
RELAXATION PROPERTIES OF
AQUEOUS SOLUTIONS OF
DECYLPYRIDINE CHLORIDE
(DPCL) |
| 1-7.P | B. Yeleussinov,
T. Yessenbaev,
A. Khasymova,
A. Alekhin,
E. Rudnikov | THE RELAXATION PROPERTIES
OF TRITON TX-100 AND
AQUEOUS SOLUTIONS OF
TRITON TX-100 |
| 1-8.P | B. Yeleussinov,
G. Prmaganbetova,
T. Yessenbaev,
M. Smagulova,
L. Bulavin | THE RELAXATION PROPERTIES
OF AQUEOUS SOLUTIONS OF
ABDM |
| 1-9.P | S. Danylov | USING OF PLASMO-CHEMICAL
TECHNOLOGIES FOR LIQUID
RADIOACTIVE WASTE
TREATMENT |
| 1-10.P | A.M. Kutsyk,
O.O. Ilchenko,
Y.M. Yuzvenko,
V.V. Obukhovskiy | COMPLEX FORMATION IN
METANOL/CHLOROFORM
SOLUTIONS: VIBRATION
SPECTROSCOPY AND QCE
STUDY |

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|--------|---|--|
| 1-11.P | L.A. Bulavin,
Y.F. Zabashta,
L.Y. Vergun,
O.S. Svechnikova,
S.R. Bobrovnik | MECHANISM OF EPITAXIAL
GROWTH OF CRYSTALS FROM
WATER SOLUTIONS |
| 1-12.P | E. Kozlovskaya,
G. Pitsevich,
N. Dorozhkin,
U. Peretolchina,
I. Doroshenko,
V. Pogorelov | 3D PES ASSOCIATED WITH
DONOR HYDROXYL GROUP
MOTIONS IN ACETILACETONE
MOLECULE. STRETCHING AND
BENDING OH VIBRATIONS
STUDIED AT B3LYP/cc-pVTZ
LEVEL OF THEORY |
| 1-13.P | V.E. Chechko,
V.Y. Gotsulskiy | QUALITATIVE ANALYSIS OF
CLUSTERIZATION IN WATER
SOLUTIONS OF ALCOHOLS |
| 1-14.P | S. Danylov,
O. Archipenko | USING OF PLASMO-CHEMICAL
TECHNOLOGIES FOR LIQUID
RADIOACTIVE WASTE
TREATMENT |
| 1-15.P | A. Dorosh,
A. Shevchuk,
O. Gutsol, V. Baglay | STRUCTURAL-RHEOLOGICAL
CHARACTERISTICS OF
CONCENTRATED AQUEOUS AND
ALCOHOLIC SOLUTIONS OF
ELECTROLYTES IN THE
TEMPERATURE RANGE (0-100)(C |

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| 1-16.P | K. Kristinaitytė,
A. Maršalka,
L. Dagys, K. Aidas,
I. Doroshenko,
Y. Vaskivskiy,
Y. Chernolevska,
V. Pogorelov,
N. Valevičienė,
V. Balevicius | TAUTOMERIC EQUILIBRIUM
AND SLOW SELF-ASSEMBLING
IN AQUEOUS SOLUTIONS OF
LYOTROPIC CHROMONIC
LIQUID CRYSTAL SUNSET
YELLOW |
| 1-17.P | Y.A. Melnik ¹ ,
M. Roziznanyi ² | ζ-POTENTIAL IN THE STUDY OF
AQUEOUS SOLUTIONS OF
ALCOHOLS |
| 1-18.P | V. Mykhailyk | RELATIONSHIP BETWEEN THE
DEGREE OF HYDRATION OF THE
SOLUTE AND THE
EVAPORATION HEAT OF WATER |
| 1-19.P | O. Puhach | USING OF PLASMO-CHEMICAL
TECHNOLOGIES FOR
ECOLOGICALLY SAFE
TECHNOLOGY OF THE DISPOSAL
OF RESISTANT ORGANIC
CONTAMINATORS - POISONOUS
CHEMICALS AND PESTICIDES |
| 1-20.P | R.O. Saienko,
O.V. Saienko | ADIABATIC COMPRESSIBILITY
OF AQUEOUS SOLUTIONS OF A
POLYOLS NUMBERS |
| 1-21.P | A.A. Semenov | DEVICE FOR DISINFECTION OF
WATER BY USING
ULTRAVIOLET RADIATION |

1-22.P	M.V. Stiranets	CONDUCTOMETRY OF WATER-ALCOHOL SOLUTIONS AND ALCOHOL NANOFLUIDS
1-23.P	A. Vasylieva, I. Doroshenko, Y. Vaskivskiy, O. Ilchenko, V. Pogorelov	VIBRATIONAL SPECTROSCOPY OF WATER: FROM CLUSTERS TO CONDENSED STATE
1-24.P	M.A. Zabolotnyy, G.I. Dovbeshko, O.P. Gnatyuk, G.I. Solyanik, V.E. Orel	MODIFICATION OF WATER-SOLUBLE ANTITUMORAL PREPARATIONS WITH BY HELP RADIATION IRRADIATION OF SOLVENT.
1-25.P	M.V. Timofeev	MODELING OF POTENTIALS FOR INTERPARTICLE INTERACTIONS BETWEEN METHANOL MOLECULES
1-26.P	D.A. Gavryushenko, N. Atamas	STUDY OF INFLUENCE OF EXTERNAL FACTORS (HIGH TEMPERATURES, PRESSURES OR EXTERNAL RADIATION) ON PHYSICAL SYSTEMS
1-27.P	A. Krakovska, J. Novakova, J. Unucka	PROPOSAL FOR THE USE OF THE PARALLEL ODRA RIVERBED (42ND TO 49TH KILOMETER OF THE RIVER) AS FLOOD PROTECTION
1-28.P	A. Krakovska	PROPOSAL OF POTENTIAL FLOOD CONTROL

- 3-1.P N. Bulavina,
V. Sklyarchuk,
Y. Plevachuk THERMOPHYSICAL PROPERTIES
OF LIQUID BINARY NaF-LaF₃,
NaF-NdF₃ AND TERNARY NaF-
LiF-LaF₃, NaF-LiF-NdF₃
EUTECTIC ALLOYS
- 3-2.P N.E. Kornienko,
O.L. Pavlenko INTERRELATION OF
VIBRATIONAL RESONANCES
AND PHONON DISPERSION IN
LIQUID BENZENE
- 3-3.P V.I. Lysov,
T.L. Tsaregradskaya,
G.V. Saenko,
O.V. Turkov PHASE-FORMATION PROCESSES
IN AMORPHOUS ALLOYS BASED
ON Fe, Ni And Co UNDER THE
INFLUENCE OF THERMAL
TREATMENT
- 3-4.P S. Odinaev,
D.M. Akdodov,
N. Shariphov CALCULATION OF SHEAR AND
BULK ELASTIC MODULES OF
AQUEOUS SOLUTIONS OF
ELECTROLYTES TAKING INTO
ACCOUNT THE GENERALIZED
INTERACTION POTENTIAL FOR
ION-MOLECULAR SYSTEMS
- 3-5.P S. Odinaev,
R.S. Mahmadbegov THE STUDY OF DIELECTRIC
PROPERTIES OF ELECTROLYTE
SOLUTIONS WHEN RELAXING
THE FLOW DECAY BY POWER
LAW
- 3-6.P S. Odinaev, K. Idibeg THE FREQUENCY ASYMPTOTICS
FOR THE
ELECTROCONDUCTIVITY AND
THE MODULUS OF
ELECTROELASTICITY

SOLUTIONS OF ELECTROLYTES

- 3-7.P O.I. Gichan,
V.V. Pototskaya ON THE COMPLEX ROUGHNESS
FUNCTION OF IMPEDANCE OF
HOMOGENEOUS CHEMICAL
REACTION OF FIRST ORDER
- 3-8.P I. Shtablavyi,
V. Plechystyy,
S. Mudry, J. Rybicki TEMPERATURE-INDUCED
CHANGES OF THE STRUCTURE
AND FREE VOLUME OF LIQUID
BISMUTH
- 3-9.P V.T. Shvets THERMODYNAMIC AND
KINETIC PROPERTIES OF
METALLIC NITROGEN AND
OXYGEN
- 3-10.P A.D. Alekhin,
Y.L. Ostapchuk,
A.V. Voytshenko,
V.I. Kovalchuk,
B.Z. Abdikarimov,
Y.G. Rudnikov INFLUENCE OF NANOPARTICLES
FIELDS AND EXTERNAL FIELDS
ON CRITICAL PARAMETERS AND
EQUATION OF STATE FOR
CONDENSED SYSTEMS NEAR
THEIR CRITICAL POINTS
- 3-11.P N.A. Atamas,
V.Y. Bardik DIFFUSION MODELS FOR IONIC
LIQUIDS –ALCOHOL SOLUTIONS
- 3-12.P A. Aliev, M. Gafurov,
I. Akhmedov, M.
Kakagasanov, Z.
Aliev MOLECULAR RELAXATION IN
BINARY SYSTEMS
- 3-13.P A. Yakymovych,
Y. Plevachuk,
V. Sklyarchuk,
V. Didukh THE EFFECT OF Mn ON THE
VISCOSITY OF THE LIQUID Sn

- 7-1.P S.I. Denisov,
A.S. Yermolenko,
V.S. Bosenko PLANAR ROTOR MODEL FOR
DRIFT OF MAGNETIC
NANOPARTICLES SUSPENDED IN
A FLUID
- 7-2.P A. Dorosh,
A. Shevchuk,
O. Gutsol, V. Baglay STRUCTURAL-RHEOLOGICAL
CHARACTERISTICS OF
ISOTROPIC AND
STRONGLYPOLAR LIQUIDS IN A
WIDE RANGE OF
TEMPERATURES OF "LIQUID-
STEAM" COEXISTENCE
- 7-3.P A. Dorosh,
A. Shevchuk,
O. Gutsol, V. Baglay MATHEMATICAL MODELING OF
THE DEPENDENCE OF THE
RHEOLOGICAL PROPERTIES OF
LUBRICANTS AND PRINTING
PAINTS OF THE ROLE OFFSET
AND INTAGLIO PRINTING
METHODS ON THE MAGNITUDE
OF THE SHEAR STRESS AND
TEMPERATURE
- 7-4.P I.V. Gapon,
V.I. Petrenko,
M.V. Avdeev,
M. Kubovcikova,
V. Zavisova,
P. Kopcansky,
L.A. Bulavin STRUCTURE OF MAGNETIC
FLUIDS AT INTERFACE WITH
SILICON BY NEUTRON
REFLECTOMETRY
- 7-5.P L.O. Mazur,
L.A. Bulavin,
L.N. Lisetski,
M.S. Soskin, A MONTE CARLO MODEL OF
LIGHT PROPAGATION IN
ORIENTED MEDIA FILLED BY
ANISOMETRIC PARTICLES

N.V. Vygornitskii,
N.I. Lebovka

- 7-6.P R. Mészáros,
S. Bárány ELECTROKINETIC POTENTIAL
AND FLOCCULATION OF
KAOLIN AND BENTONITE
PARTICLES BY
POLYELECTROLYTES AND
THEIR MIXTURES
- 7-7.P A. Musatov,
K. Siposova,
Y. Shlapa, A. Belous INHIBITION OF PROTEIN
AMYLOID FORMATION BY
CERIUM OXIDE
NANOPARTICLES
- 7-8.P S. Odinaev,
K. Komilov,
A.K. Zaripov FREQUENCY DISPERSION OF
DYNAMIC COEFFICIENTS OF
VISCOSITY OF MAGNETIC
LIQUIDS
- 7-9.P T. Sakhno,
I. Korotkova,
N. Barashkov,
I. Irgibaeva,
A. Aldongarov,
A. Mantel,
I. Barashkova COLORED MAGNETIC BACTERIA
AND THEIR USE FOR ANIMAL
FEED APPLICATION
- 7-10.P I.P. Studenyak,
V.Y. Izai, S.O. Rybak,
S.I. Poberezhets,
O.V. Kovalchuk,
P. Kopčanský,
M. Timko,
V. Gdovinova,
V. Lisý DIPOLAR POLARIZATION OF
PLANARLY ORIENTED 6CB
LIQUID CRYSTAL WITH Cu7PS6
NANOPARTICLES

Poster session 2 (May 19, 2018; 15:55 - 16:40)

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|-------|---|--|
| 2-1.P | S. Vasylyuk,
Y.O. Myagchenko,
L. Akymenko,
N. Pinchuk,
T. Kuseljova,
V.P. Gryschuk | USE THE NEUTRAL ANOLYTES
FOR MONITORING FOOD
QUALITY CONTROL |
| 2-2.P | S. Danylov | USING OF PLASMO-CHEMICAL
TECHNOLOGIES FOR LIQUID
RADIOACTIVE WASTE
TREATMENT |
| 2-3.P | V. Koba, A. Lisova,
A. Yakunov | DYNAMIC SPECKLE ANALYSIS
IN APPLICATION TO PHYSICS OF
LIQUIDS AND CELL BIOPHYSICS |
| 2-4.P | V. Koba, A. Lisova,
A. Yakunov | DYNAMIC SPECKLE ANALYSIS
IN APPLICATION TO PHYSICS OF
LIQUIDS AND CELL BIOPHYSICS |
| 2-5.P | L.V. Budianska,
O.V. Vashchenko,
N.A. Kasian,
L.N. Lisetski | MEMBRANOTROPIC EFFECTS OF
LAURIC ACID, FENSPIRID AND
KAOLINE IN MODEL LIPID
MEMBRANES: IMPACT OF LIPID
COMPOSITION |
| 2-6.P | A.V. Chalyi,
Y.V. Tsekhmister,
K.A. Chalyy,
V. Pashchenko,
A.A. Kryshtopa | SYNERGETIC APPROACH TO
INTERDISCIPLINARY DIALOGUE
BETWEEN PHYSICS AND
MEDICINE |

- 2-7.P N. Nizomov,
E.N. Kurtaliev,
A.S. Yarmukhamedov INTERACTION OF SOME STYRYL
DYES WITH DNA AND ITS
SPECTROSCOPIC
MANIFESTATION
- 2-8.P O. Puhach,
O. Archipenko USING OF PLASMO-CHEMICAL
TECHNOLOGIES FOR
ECOLOGICALLY SAFE
TECHNOLOGY OF THE DISPOSAL
OF RESISTANT ORGANIC
CONTAMINATORS - POISONOUS
CHEMICALS AND PECTICIDES
- 2-9.P L.A. Bulavin,
Y.F. Zabashta,
B.V. Batsak ASSESSMENT MECHANISM OF
BLOOD FLOW IN VESSELS USING
MAGNETIC RESONANCE
TOMOGRAPHY
- 2-10.P V.Y. Bardik,
O.A. Grishina,
D.A. Nerukh,
N.A. Atamas CONFORMATION CHANGES OF
HUMAN SERUM ALBUMINE
UNDER TEMPERATURE EFFECT
IN PHISIOLOGYCAL
TEMPERATURE RANGE
- 4-1.P M. Bulakhov,
A.S. Peletminskii,
S.V. Peletminskii,
Y.V. Slyusarenko,
A.G. Sotnikov QUADRATIC APPROXIMATION
IN THEORY OF A WEAKLY
INTERACTING BOSE GAS WITH
CONDENSATE: THE ROLE OF
NON-LOCAL INTERACTION
POTENTIALS
- 4-2.P T. Dubchak,
I. Gritsenko,
K. Mykhaylenko,
S. Sokolov,
G. Sheshin NONLINEAR BEHAVIOR OF THE
OSCILLATING TUNUNG FORK IN
HE II UNDER QANTUM
VORTICES – PHONON
SCATTERING

- 4-3.P S.S. Kapuza,
V.A. Vrakina,
V.K. Chagovets DRAG COEFFICIENT OF QUARTZ
TUNING FORK IN SUPERFLUID
3He - 4He MIXTURES
- 4-4.P N.E. Kornienko,
A.N. Korniienko,
O.O. Ilchenko OF COLLECTIVE PROPERTIES OF
VALENT OSCILLATIONS SC-H AND
O-H BONDS IN SOLUTIONS
CH₃OH WITH CHCl₃
- 4-5.P V.Y. Syvokon,
I.V. Sharapova ELECTRIC CURRENT IN THE
WIGNER CRYSTAL IN A
NARROW CHANNEL
- 4-6.P T.K. Salikhov,
S.K. Davlatjonova THEORY OF THE
PHOTOACOUSTIC EFFECT WITH
SUPERFLUID SOLUTION 3HE-4HE
- 4-7.P V.A. Vrakina,
S.S. Kapuza,
V.K. Chagovets CRITICAL VELOCITY OF
TRANSITION TO TURBULENT
STATE IN SUPERFLUID
SOLUTIONS OF 3He - 4He
- 4-8.P N.E. Kornienko,
O.O. Ilchenko,
A.N. Korniienko SPECTRAL DETECTION OF
PHONON DISPERSION OF
VIBRATIONAL MODES IN
SOLUTIONS CHCl₃ WITH CH₃OH
- 8-1.P A.Y. Kharchenko,
O.R. Klochaniuk,
M.O. Marfunin,
N.O. Mchedlov-
Petrossyan THE OBSERVATION OF LARGE
SCALE NANOPARTICLES IN
TRUE SOLUTIONS OF DYES n-
DECYLFLUORESCEIN AND n-
DECYLEOSIN

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