

PROGRAMME

4th International Conference

PHYSICS OF LIQUID MATTER: MODERN PROBLEMS

TOPICS OF THE CONFERENCE:

- I Thermodynamics, structure and intermolecular interaction in fluids
- II Transport phenomena
- III Phase transitions and critical phenomena
- IV Surface phenomena and fluids in confined geometry
- V Water and water systems in normal and methastable state
- VI Solutions of low- and high-molecular substances. Their role in vital activity of human body
- VII Quantum Liquids. Ferrofluids
- VIII Radiation physics of liquids

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- VIII Radiation physics of liquids

ORAL SESSION

Date	Room Number							
	Topic I	Topic II	Topic III	Topic IV	Topic V	Topic VI	Topic VII	Topic VIII
Morning 24 th May	209	300	200		100			
Evening 24 th May	209	/	200		/			300
		100						
Morning 25 th May	209			100		200	300	
Evening 25 th May	209		200	/		/	300	
				100		100		

Date	Topic Number			
	Room #209	Room #300	Room #200	Room #100
Morning 24 th May	I	II	III	V
Evening 24 th May	I	VIII	III	/
				V
Morning 25 th May	I	VII	VI	IV
Evening 25 th May	I	VII	III	/
				IV
				VI

POSTERS

Date	Topic							
	Topic I	Topic II	Topic III	Topic IV	Topic V	Topic VI	Topic VII	Topic VIII
Morning 24 th May	●	●	●		●			
Evening 24 th May	●	●	●					●
Morning 25 th May	●			●		●	●	
Evening 25 th May	●		●	●		●	●	

MAY, 23, 2008

OPENING THE CONFERENCE

at 14.30

Vasilkovskaya str, 36, Confernce Hall

**Minister of Education and Science of Ukraine,
Prof. Ivan Vakarchuk**

Welcoming speech

**International Advisory Committee chairman Acad. NASU
Igor Yukhnovskii**

Welcoming speech

PLENARY SESSION

MAY, 23, 2008

Conference hall, Str Vasilkovskaya, 36

Chairman A. G. Zagorodniy

15.00 30 min	PL-1	Marie-Louise Saboungi	BULK AND CONFINED POLYMER ELECTROLYTES
15.30 30 min	PL-2	V.L.Aksenov, M.V.Avdeev, L.A.Bulavin, L.Rosta	CLUSTER FORMATION IN FULLERENE SOLUTIONS
16.00 30 min	PL-3	D. Gorse-Pomonti	CORROSION: INEVITABILITY, FACTS AND REMEDIES
16.30 20 min	PL-4	W. Schröer, A. Butka, V. R. Vale, J. Köser	CRITICALITY AND CORRESPONDING STATES IN SOLUTIONS OF IONIC LIQUIDS

ORAL SESSIONS

MAY, 24, 2008
MORNING

Room № 100

V. WATER AND WATER SYSTEMS IN NORMAL AND METHASTABLE STATE

Chairman G.G. Malenkov

8.45 30 min	5-1. O.	L. A. Bulavin, N. P. Malomuzh	PHYSICAL NATURE OF SURPRISING PROPERTIES OF WATER IN ITS NORMAL AND SUPERCOOLED STATES
9.20 20 min	5-2. O.	G.G. Malenkov, Yu.I. Naberukhin V.P. Voloshin,	COLLECTIVE EFFECTS IN DIFFUSIONAL MOTION OF WATER MOLECULES. COMPUTER SIMULATION
9.45 20 min	5-3. O.	M.L. Antipova, V.E. Petrenko, O.V. Ved'	HYDROGEN BONDS IN LIQUID WATER: MOLECULAR DYNAMICS SIMULATION
10.10 20 min	5-4.O.	A. Kandratsenka, J. Schroeder, D. Schwarzer, V.S. Vikhrenko	NONEQUILIBRIUM MD SIMULATION OF VIBRATIONAL ENERGY RELAXATION IN WATER

10.35 – 11.20 COFFEE BREAK, POSTER SESSION:

1-1. P. – 1-18. P. ; 2-1.P.-2-14.P.; 3-1.P.-3-7.P.; 5-1.P.-5-11.P.

Chairman V. A. Mazur

11.20 30 min	5-5. O.	V.P. Voloshin	TOPOLOGICAL STABILITY OF WATER STRUCTURE UNDER INCREASE OF DENSITY
11.55 20 min	5-6. O.	M.M. Bily, L.A. Bulavin, X.O. Kazachenko, A.O. Maksimov, A.V. Yakunov	FRACTAL ATTRIBUTES IN LOW-FREQUENCY RAMAN SCATTERING SPECTRA OF WATER AND AQUEOUS SOLUTIONS
12.20 20 min	5-7. O.	M. El Mekki, L. Mercury, K. I. Shmulovich, C. Ramboz,	EXPERIMENTAL STUDY OF WATER AND SOLUTIONS IN METASTABLE LONG-LIVED STATE.
12.45 20 min	5-8. O.	Victor A. Mazur, Attila R. Imre, Josep L. Tamarit, Sylwester Rzoska	GLOBL PHASE BEHAVIOUR OF ORGANIC TOXICANTS IN SUPERCRITICAL WATER

Room № 200

III. PHASE TRANSITIONS AND CRITICAL PHENOMENA

Chairman A. B. Belonoshko

8.45 30 min	3-1. O.	O.V. Patsahan, I.M. Mryglod	PHASE BEHAVIOR AND CRITICALITY IN IONIC FLUIDS
9.20 20 min	3-2. O.	Anatoly B. Belonoshko	A COMPARISON OF λ -INTEGRATION AND N -PHASE METHODS
9.45 20 min	3-3. O.	M.P. Kozlovskii	THE CROSSOVER EQUATION OF STATE FOR 3D ISING MODEL
10.10 20 min	3-4. O.	V.L. Kulinskii	HOW TO "CURE" THE ASYMMETRY OF THE HAMILTONIAN AND ITS EFFECTS WITHIN THE CANONICAL FORMALISM APPROACH

10.35 – 11.20 COFFEE BREAK, POSTER SESSION:
1-1. P. – 1-18. P. ; 2-1.P.-2-14.P.; 3-1.P.-3-7.P.; 5-1.P.-5-11.P.

Chairman M.P. Kozlovskii

11.20 30 min	3-5. O.	E.V. Matizen (invited), S.M. Ishikaev, K.R. Zhdanov	CRYSTAL-LIKE ORDERING AND MELTING OF MAGNETIC FLUX IN THE REGULAR JOSEPHSON ARRAY
11.55 20 min	3-6. O.	L.A. Bulavin, L.L. Jenkovszky, V.K. Magas, V.M. Sysoev	THE NUCLEAR MATTER AS A FLUID WITH SMALLEST VISCOSITY
12.20 20 min	3-7. O.	V. N. Bondarev	NON-CLASSICAL CRITICAL INDICES IN THE THEORY OF FLUIDS
12.45 20 min	3-8. O.	A. Puzenko	SPACE AND TIME SCALING IN GLYCEROL–WATER MIXTURES

Room № 300

II. TRANSPORT PHENOMENA

Chairman I.M. Mryglod

8.45 30 min	2-1. O.	T.Bryk, I.Mryglod	COLLECTIVE DYNAMICS OF MOLTEN SALTS: THEORETICAL AND AB INITIO MOLECULAR DYNAMICS STUDY
9.20 20 min	2-2. O.	E. Arapaki, P. Argyrakis, Y.G. Groda, V.S. Vikhrenko	DIFFUSION CHARACTERISTICS OF INTERACTING PARTICLES ON DISORDERED LATTICES
9.45 20 min	2-3. O.	V.V. Loskutov, V.A. Sevriugin	GENERALISED DESCRIPTION OF SELF- DIFFUSION COEFFICIENT OF LIQUID MOLECULES IN HETEROGENEOUS SYSTEMS

10.10 20 min	2-4.O.	V. Shvets, S. Rachynski, Ye. Malynovski	THE CONDUCTIVITY OF LIQUID METALLIC HYDROGEN
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10.35 – 11.20 COFFEE BREAK, POSTER SESSION:

1-1. P. – 1-18. P. ; 2-1.P.-2-14.P.; 3-1.P.-3-7.P.; 5-1.P.-5-11.P.

Chairman S.A. Sokolovsky

11.20 30 min	2-5. O.	V.Ya. Rudyak, A.A. Belkin	TRANSPORT PROCESSES IN NANOFLUIDS
11.55 20 min	2-6. O.	S.A. Sokolovsky	PHONON HYDRODYNAMICS IN SOLID TAKING INTO ACCOUNT DRIFT VELOCITY RELAXATION
12.20 20 min	2-7. O.	D.V. Anchishkin, A.O. Muskeyev, S.N. Yezhov	MANY-FLUID DESCRIPTION OF THE NUCLEAR MATTER FORMED IN RELATIVISTIC HEAVY-ION COLLISIONS
12.45 20 min	2-8. O.	K. V. Cherevko, D. A. Gavrushenko, V. M. Sysoev	ENTROPY EFFECTS INFLUENCE ON THE DROP EVAPORATION PROCESSES IN THE STATIONARY DIFFUSIVE REGIME

Room № 209

I. THERMODYNAMICS, STRUCTURE AND INTERMOLECULAR INTERACTION IN FLUIDS

Chairman Yu. B. Gaididei

8.45 30 min	1-1. O.	Ivan V. Blazhnov, Nikolay P. Malomuzh	NATURE OF THE KINEMATIC SHEAR VISCOSITY OF HIGHLY VISCOUS GLYCEROL
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9.20 20 min	1-2. O.	L.A. Bulavin, V.I. Slisenko, A.A. Vasilkevich, A.V. Kovalev, P.G. Ivanitsky, V.V. Krotenko, E.V. Korbetsky	CONCENTRATION FEATURES OF DYNAMICS OF MOLECULES OF A H ₂ O- C ₃ H ₇ OH SOLUTIONS
9.45 20 min	1-3. O.	Daniel R.Martin, Dmitry V. Matyushov	CAVITY FIELD IN MOLECULAR LIQUIDS. WHEN A POLAR LIQUID BECOMES A DIELECTRIC?
10.10 20 min	1-4.O.	E. V. Orlov	MOMENT APPROACH TO DESCRIPTION OF DISSIPATIVE AND NON – DISSIPATIVE SYSTEMS

10.35 – 11.20 COFFEE BREAK, POSTER SESSION:

1-1. P. – 1-18. P. ; 2-1.P.-2-14.P.; 3-1.P.-3-7.P.; 5-1.P.-5-11.P.

Chairman M.F. Holovko

11.20 30 min	1-5. O.	David L. Price, Louis Hennet	STABLE AND SUPERCOOLED LEVITATED LIQUIDS
11.55 20 min	1-6. O.	M.V. Avdeev, L.A. Bulavin, V.I. Petrenko, L. Rosta	SOLUTIONS OF DODECYLBENZENE SULFONIC ACID IN POLAR CARRIER STUDIED BY SMALL-ANGLE NEUTRON SCATTERING
12.20 20 min	1-7. O.	F.H. Tikhvatullin, V.E. Pogorelov, A. Jumabaev, H. Hushvaktov, A. Absanov, A. Shaymanov, A.Omanov	AGGREGATION OF MOLECULES IN LIQUID METHYL ALCOHOL AND ITS SOLUTIONS. RAMAN SPECTRA AND QUANTUM-CHEMICAL CALCULATIONS
12.45 20 min	1-8. O.	Vytautas Balevicius, Zofia Gdaniec, Hartmut Fuess	NMR PROBING OF MESOSCOPIC AGGREGATION IN IONIC LIQUIDS

EVENING

Room № 100

V. WATER AND WATER SYSTEMS IN NORMAL AND METHASTABLE STATE

Chairman N. P. Malomuzh

14.45 30 min	5-9. O.	M.V.Kurik	BISYMMETRICAL FRACTALY – NATURAL CHARACTERISTIC OF WATER STRUCTURE
15.20 20 min	5-10. O.	B.A Okhrimenko, S.M. Yablochkov, K.S. Yablochkova	INVERSION OF WATER MOLECULE IN THE ALTERNATING MAGNETIC FIELD

II. TRANSPORT PHENOMENA

Chairman N. P. Malomuzh

15.45 20 min	2-9. O.	S. Odinaev, D. Akdodov, N. Shariphov, Kh. Mirzoaminov	ON FREQUENCY DISPERSION THERMOELASTIC PROPERTIES OF SOLUTIONS OF ELECTROLITS
16.10 20 min	2-10.O.	Mikhail N. Malomuzh	CLUSTERIZATION PROCESSES IN 2D COULOMBIC GAS AND THEIR CONNECTION WITH PECULIARITIES OF ITS PHASE DIAGRAM

16.35 – 17.20 COFFEE BREAK, POSTER SESSION:

1-19.P. – 1-32.P.; 2-15.P. – 2-27.P.; 3-8.P. - 3-24.P.; 8-1.P. - 8.6.P

II. TRANSPORT PHENOMENA

Chairman V.M.Yashchuk

17.20 30 min	2-11.O.	V.M.Yashchuk, V.Yu.Kudrya, I.O.Savchenko, R.D.Fedorovich, A.G.Naumovets, L.O.Vretik, V.V.Cherepanov, Z.I.Kazantseva,	TRANSPORT PHENOMENA OF NEUTRAL AND CHARGED ELECTRONIC EXCITATION IN THE FUNCTIONAL MOLECULAR STRUCTURES AND METAL-ORGANIC COMPOSITES FOR NANOELECTRONICS
17.55 20 min	2-12.O.	K. Dworecki, S. Wąsik	EXPERIMENTAL INVESTIGATION OF THE ANOMALOUS DIFFUION IN GELS
18.20 20 min	2-13.O.	M.Y. Kovalevsky, A.Ya. Razumny, O.A. Samofalova	TO THE THEORY OF TRANSPORT PHENOMENA OF CONDENSED MATTER WITH INTERNAL STRUCTURE
18.45 20 min	2-14.O.	V.V. Obukhovskiy, V.V. Popova	THE THEORY OF DIFFUSION IN MOLECULAR SOLUTIONS
19.10 20 min	2-15.O.	T.Kh.Salikhov, Z.Kh.Odilov	ON THE THEORY OF THE OPTOACOUSTIC SPECTROSCOPY OF THE WEAK ABSORBING LIQUIDS

Room № 200

III. PHASE TRANSITIONS AND CRITICAL PHENOMENA

Chairman D. Schwahn

14.45 30 min	3-9. O.	Dietmar Schwahn	MINERALIZATION OF CALCIUM CARBONATE AND CALCIUM PHOSPHATE IN THE PRESENCE OF PROTEINS – AN EXPLORATION WITH SMALL ANGLE NEUTRON SCATTERING
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15.20 20 min	3-10. O.	Feride Severcan, Filiz Korkmaz, D. Alexandroaie, Dana Dorohoi	TEMPERATURE INFLUENCE ON THE DPPC MODEL MEMBRANES, STUDIED BY FTIR TECHNIQUE
15.45 20 min	3-11. O.	I.I. Narkevich, A.V. Zharkevich, E.V. Farafontova	DEVELOPMENT OF THE ALL-PHASE-STATE EQUATION FOR CRYSTAL, LIQUID AND GASEOUS PHASES OF THE SIMPLE MOLECULAR MEDIUM
16.10 20 min	3-12.O.	A.D. Alekhin, B.Zh. Abdikarimov, E.G. Rudnikov, E.T. Shimanskaya	EQUATION OF STATE FOR ONE-COMPONENT SUBSTANCE NEAR THE CRITICAL POINT ON THE BASE OF VAN DER WAALS GAS OF FLUCTUATIONS

**16.35 – 17.20 COFFEE BREAK, POSTER SESSION:
1-19.P. – 1-32.P.; 2-15.P. – 2-27.P.; 3-8.P. - 3-24.P.; 8-1.P. - 8.6.P**

Chairman W. Schröer

17.20 30 min	3-13.O.	A. S. Bakai	ON ROLE OF THE HETEROPHASE FLUCTUATIONS ON PHASE TRANSITIONS
17.55 20 min	3-14.O.	Alekseev A.N., Alekseev S.A., Lasarenko M.M., Maiko A.M.	MECHANISMS OF THERMAL MOBILITY OF SOME FATTY ACIDS MOLECULES NEAR THE PHASE TRANSITIONS
18.20 20 min	3-15.O.	F. Korkmaz, F. Severcan, M. Aflori, D. O. Dorohoi	HYDROGEN BONDS IN DIPHALMITOYL PHOSPHATIDYLCHOLYNE (DPPC) MODEL MEMBRANES
18.45 20 min	3-16.O.	V.B. Belyaev, M.B. Miller	INDUCED MOLECULAR-NUCLEAR TRANSITIONS IN WATER AND SOME OTHERS MOLECULES

Room № 300

VIII. RADIATION PHYSICS OF LIQUIDS

Chairman D. Gorse-Pomonti

14.45 30 min	8-1. O.	M. Holovko, T. Patsahan	COMPUTER SIMULATIONS OF SPUTTERING PHENOMENA IN NUCLEAR FUEL CONTAINING MATERIALS
15.20 30 min	8-2. O.	A. S. Bakai, V. Azhazha, A.A.Omel'chuk, S.V.Volkov, S.N. Dub	EFFECT OF ELECTRON IRRADIATION AND ALLOY ADDITIONS ON CORROSION STABILITY OF NI-MO ALLOYS IN NaF- ZrF ₄ MELT
15.55 20 min	8-3. O.	A.I. Sokolovsky, A.A. Stupka	TO MICROSCOPIC THEORY OF RADIATION HYDRODYNAMICS
16.20 20 min	8-4.O.	A.Ya.Dzyublik	SHAKE-OFF FOR ELECTRONS IN LIQUIDS, CAUSED BY NUCLEAR DECAY

16.45 – 17.30 COFFEE BREAK, POSTER SESSION:

1-19.P. – 1-32.P.; 2-15.P. – 2-27.P.; 3-8.P. - 3-24.P.; 8-1.P. - 8.6.P

Chairman A. S. Bakai

17.30 20 min	8-5.O.	S.F. Lyagushyn, Yu.M. Salyuk, A.I. Sokolovsky	KINETICS OF ELECTROMAGNETIC FIELD AND EMITTERS OF QUASI- EQUILIBRIUM LIQUID
17.55 20 min	8-6.O.	L.A. Bulavin, D.A. Gavryshenko, M.P.Kulish, P.O. Selischev, V.M. Sysoev	INFLUENCE OF RADIATION ON FLUIDS PHYSICAL PROPERTIES AND PHASE TRANSITION
18.20 20 min	8-7.O.	A.V.Chalyi, K.A.Chalyy, L.M.Chernenko, K.K.Godynskyi	NEUTRON STUDIES OF CONFINED LIQUIDS IN THE CRITICAL REGION

18.45 20 min	8-8.O.	V.M.Yashchuk, V.Yu.Kudrya, S.M.Levchenko	THE RNA SPECTRAL PROPERTIES AND THE ENERGY TRANSFER IN THE RNA MACROMOLECULE
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Room № 209

I. THERMODYNAMICS, STRUCTURE AND INTERMOLECULAR INTERACTION IN FLUIDS

Chairman V. Ilyin

14.45 30 min	1-9. O.	V. Ilyin	MECHANICAL PROPERTIES OF BINARY MIXTURES OF SOFT DISKS
15.20 20 min	1-10. O.	Yu.V.Kalyuzhnyi, I.A.Protsykevych, P.T.Cummings	LIQUID-GAS PHASE BEHAVIOR OF THE DIPOLAR HARD- AND SOFT-SPHERE FLUIDS
15.45 20 min	1-11. O.	M.A. Varfolomeev, K.V. Zaitseva, B.N. Solomonov	UNUSUAL THERMODYNAMICS OF SPECIFIC INTERACTIONS OF PROTON ACCEPTORS IN ALIPHATIC ALCOHOLS
16.10 20 min	1-12.O.	A.B. Kaplun, A.B. Meshalkin	PHYSICAL BASED SHORT EQUATIONS OF STATE OF REAL GAS (REGULAR PART)

**16.35 – 17.20 COFFEE BREAK, POSTER SESSION:
1-19.P. – 1-32.P.; 2-15.P. – 2-27.P.; 3-8.P. - 3-24.P.; 8-1.P. - 8.6.P**

Chairman S. N. Volkov

17.20 30 min	1-13.O.	Yu. B. Gaididei	CONFORMATIONAL TRANSFORMATIONS INDUCED BY THE CHARGE-CURVATURE INTERACTION
17.55 20 min	1-14.O.	A. V. Kleshchonok, V. Yu. Reshetnyak, V. A. Tatarenko	SUPPERSTRUCTURE FORMATION IN NEMATIC LIQUID CRYSTAL FILLED WITH SPHERE-LIKE PARTICLES
18.20 20 min	1-15.O.	M.Y. Kovalevsky, V.T. Matskevich	ABOUT SPECTRAL AND POLARIZATION FEATURES OF ACOUSTIC WAVES IN THE UNIAXIAL NEMATIC LIQUID CRYSTALS
18.45 20 min	1-16.O.	I.I. Adamenko, S.O.Zelinsky	THE PRESSURE AND TEMPERATURE INFLUENCE ON HYDROGEN BOND IN GLYCEROL- WATER SOLUTION

MAY, 25, 2008
MORNING

Room № 100

IV. SURFACE PHENOMENA AND FLUIDS IN CONFINED GEOMETRY

Chairman Yu. B. Melnichenko

8.45 30 min	4-1. O.	Y. B.Melnichenko (invited)	PHASE BEHAVIOR OF CARBON DIOXIDE CONFINED IN NATURAL AND ARTIFICIAL POROUS MATERIALS: COMPARATIVE STUDY USING SANS
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9.20 20 min	4-2. O.	S.V. Gorobets, O.Yu. Gorobets, O.N. Bylo	DYNAMICS OF STEEL ETCHING PROCESS IN AQUEOUS ELECTROLYTIC SOLUTION UNDER THE INFLUENCE OF MAGNETIC FIELD
9.45 20 min	4-3. O.	Mikhailenko V.I., Popovskii A.Yu., Gorjuk A.A.	EFFECT OF ORIENTATIONAL ORDERING IN THIN WALL ADJACENT LIQUID LAYERS AS THE JOINT ACTION OF DIFFERENT TYPE OF INTERMOLECULAR INTERACTIONS
10.10 20 min	4-4.O.	V.V. Chaban, O.N. Kalugin	LIQUID METHANOL CONFINED BY CARBON NANOTUBES

**10.35 – 11.20 COFFEE BREAK, POSTER SESSION:
1-33.P. – 1-44.P.; 4-1.P. - 4-12.P.; 6-1.P. - 6.14.P.; 7-1.P. - 7-12.P.**

Chairman V. V. Klepko

11.20 30 min	4-5. O.	N. O. Rojas, M. Argentina, E. A. Cerda	NON-LINEAR FARADAY'S INSTABILITY
11.55 20 min	4-6. O.	V. Vassilenko, O.M.N.D. Teodoro, A.M.C. Moutinho	MOLECULAR INTERACTION OF AZIDOACETONITRILE WITH RH (111) SURFACES
12.20 20 min	4-7. O.	A.V.Chalyi, V.F.Chekhun, K.A.Chalyy, A.N.Vasil'ev, L.M.Chernenko, E.V.Zaitseva	MEDICAL AND BIOLOGICAL APPLICATIONS OF PHASE TRANSITIONS IN CONFINED GEOMETRY
12.45 20 min	4-8. O.	T. Patsahan, W. Dong	HARD-SPHERE FLUID CONFINED IN SPONGE-LIKE POROUS MEDIA

Room № 200

VI. SOLUTION OF LOW- AND HIGH-MOLECULAR SUBSTANCES. THEIR ROLE IN VITAL ACTIVITY OF HUMAN BODY.

Chairman V.L. Aksenov

8.45 30 min	6-1. O.	Vitaliy Pipich, Lutz Willner, Dietmar Schwahn	ORDERING OF THE A-B DIBLOCK COPOLYMER IN A THREE COMPONENT A/B/A-B POLYMER MIXTURE – AN EXTERNAL NON-ORDERING FIELD IN A LIFSHITZ CRITICAL SYSTEM
9.20 20 min	6-2. O.	V.G. Rostiashvili, J.L.A. Dubbeldam, A. Milchev, T.A. Vilgis	POLYMER TRANSLOCATION THROUGH A NANOPORE : A MANIFESTATION OF ANOMALOUS DIFFUSION
9.45 20 min	6-3. O.	S. Magazù, G. Maisano, F. Migliardo, A. Benedetto.	MEAN SQUARE DISPLACEMENT EVALUATION BY ELASTIC NEUTRON SCATTERING SELF-DISTRIBUTION FUNCTION ON MODEL SYSTEMS OF BIOPHYSICAL INTEREST
10.10 20 min	6-4.O.	O.A.Kyzyma, M.V.Avdeev, L.A. Bulavin, V.L.Aksenov, T.V.Tropin, S.V.Snegir, M.V.Korobov, L.Rosta	REORGANIZATION OF FULLERENE CLUSTERS IN THE SYSTEM C60/NMP AFTER ADDITION OF WATER

**10.35 – 11.20 COFFEE BREAK, POSTER SESSION:
1-33.P. – 1-44.P.; 4-1.P. - 4-12.P.; 6-1.P. - 6.14.P.; 7-1.P. - 7-12.P.**

Chairman M.-L. Saboungi

11.20 30 min	6-5. O.	O.Slobodyanyuk, I.Alexeeva, S.Garasevych, D.Hovorun, L.Palchikovska, M.Yakhnenko	RAMAN STUDY OF BIOLOGICALLY ACTIVE AZA-PYRIMIDINE NUCLEOSIDES SOLUTIONS
11.55 20 min	6-6. O.	V.K. Koltover	SPIN CATALYSIS IN MOLECULAR LIQUIDS AND BIOMOLECULAR NANO- REACTORS
12.20 20 min	6-7. O.	L. A. Bulavin, S. Yu. Kutovy, S. N. Volkov, S. M. Perepelytsya	OBSERVATION OF THE ION- PHOSPHATE VIBRATIONAL MODE IN THE DNA LOW-FREQUENCY SPECTRA
12.45 20 min	6-8. O.	Yu.M. Barabash, L.N. Christophorov, M.V. Olenchuk, V.N. Kharkyanen	LIGHT PROPAGATION THROUGH SOLUTIONS OF MOLECULES WITH LONG-LIVED PHOTOEXCITED STATES

Room № 300

VII. QUANTUM LIQUIDS. FERROFLUIDS

Chairman E. Ya. Rudavskii

8.45 30 min	7-1. O.	A. Rybalko, E. Rudavskii, S. Rubets, V. Tikhyy	THE INDUCED RADIATION OF UHF PHOTONS IN SUPERFLUID HELIUM AT ROTON FREQUENCIES
9.20 20 min	7-2. O.	V.M. Loktev, M.D. Tomchenko	POSSIBLE NATURE OF THE ELECTRIC ACTIVITY OF HELIUM-II
9.45	7-3. O.	A.N. Tarasov	SOME QUESTIONS OF SUPERFLUIDITY

20 min			WITH TRIPLET P-WAVE PAIRING IN NEUTRON MATTER AT SUBNUCLEAR AND SUPERNUCLEAR DENSITIES IN STRONG MAGNETIC FIELD
10.10 20 min	7-4.O.	K. Nemchenko S. Rogova	HEAT TRANSFER BY SOUND IN SUPERFLUID HELIUM AT LOW TEMPERATURES

**10.35 – 11.20 COFFEE BREAK, POSTER SESSION:
1-33.P. – 1-44.P.; 4-1.P. - 4-12.P.; 6-1.P. - 6.14.P.; 7-1.P. - 7-12.P.**

Chairman I.N. Adamenko

11.20 30 min	7-5. O.	A.V. Feoktystov, M.V. Avdeev, V.L. Aksenov, L.A. Bulavin, D. Bica, L. Vekas, V.M. Garamus, R. Willumeit	SMALL-ANGLE NEUTRON SCATTERING CONTRAST VARIATION ON POLYDISPERSE SUPERPARAMAGNETIC SYSTEMS
11.55 20 min	7-6. O.	A. Rovenchak	HARMONICALLY TRAPPED BOSONS ON THE SIERPIŃSKI CARPETA
12.20 20 min	7-7. O.	E.Rudavskii, V.Grigor'ev, V.Maidanov, V.Rubanskii, S.Rubets, A.Rybalko, V.Tikhiy	OBSERVATION OF A GLASSY PHASE IN ^4He BELOW 300 mK
12.45 20 min	7-8. O.	I.N. Adamenko, K.E. Nemchenko, I.V. Tanatarov, A.F.G. Wyatt	INTERACTION OF HE II QUASIPARTICLES WITH THE INTERFACE AND THEIR CONTRIBUTIONS TO OSMOTIC PRESSURE

Room № 209

I. THERMODYNAMICS, STRUCTURE AND INTERMOLECULAR INTERACTION IN FLUIDS

Chairman V.M. Sysoev

8.45 30 min	1-17. O.	M. Druchok, M.Holovko	AN INFLUENCE OF PH ON URANYL HYDRATION STRUCTURE
9.20 20 min	1-18. O.	E. Filip, I. Humelnicu	THEORETICAL AND EXPERIMENTAL INVESTIGATION OF INTERMOLECULAR HYDROGEN BOND FORMATION IN SOME HYDROXYQUINOLINES
9.45 20 min	1-19. O.	Claudia Nădejde, Dorina Emilia Creangă, Elena Filip, Dana-Ortansa Dorohoi	INTERMOLECULAR INTERACTIONS IN SOLUTIONS OF SOME THREEPHENYLFORMAZANE DERIVATIVES STUDIED BY ELECTRONIC ABSORPTION SPECTRA
10.10 20 min	1-20.O.	Dana-Ortansa Dorohoi, Mihaela Dulcescu	HYDROGEN BONDS IN AQUEOUS SOLUTIONS OF SOME PYRIDAZINIUM YLIDS, STUDIED BY SPECTRAL MEANS

10.35 – 11.20 COFFEE BREAK, POSTER SESSION:

1-33.P. – 1-44.P.; 4-1.P. - 4-12.P.; 6-1.P. - 6.14.P.; 7-1.P. - 7-12.P.

Chairman V.I. Lysov

11.20 30 min	1-21. O.	A. E. Irmak, H. Arslan	LIQUID PROPERTIES OF Ni, Pd, Pt, Rh, AND Ag PURE METALS: A MOLECULAR DYNAMICS STUDY
11.55 20 min	1-22. O.	S. Mudry, I. Shtablavyi, J. Rybicki	SHORT RANGE ORDER CHANGE OF Al ₈₃ Cu ₁₇ EUTECTIC MELT DOPED WITH Ni
12.20 20 min	1-23. O.	O.S.Roik, O.V.	INTERMEDIATE RANGE ORDERING IN LIQUID BINARY Al-M (M = Ni, Co, Cu,

Samsonnikov, Mn) ALLOYS
V.P.Kazimirov,
V.E. Sokol'skii,
O.S. Muratov

12.45 1-24. O. A.S. Basin THE MAIN IDEAS OF THE ATOMIC
20 min STRUCTURE OF SIMPLE LIQUID
METALS

EVENING

Room № 100

IV. SURFACE PHENOMENA AND LIQUIDS IN CONFINED GEOMETRY

Chairman H.-J. Mögel

14.45 4-9. O. T. Zehl, SELF-ASSEMBLY OF SURFACTANTS IN
30 min M. Wahab, BULK SOLUTIONS AND AT SOLID
P. Schiller, /LIQUID INTERFACES
H.-J. Mögel

15.20 4-10. O. M.B. Miller, TWO-BUBBLE MODE OF
20 min A.V. SONOLUMINESCENCE AS A POSSIBLE
Sermiyagin, KEY TO SELF-SUSTAINING NUCLEAR
B.F. Kostenko, FUSION DURING CAVITATION
I.A.
Lomachenkov

15.45 4-11. O. A.V. Chalyi, CONFINED MULTICOMPONENT FLUIDS
20 min A.N. Vasilev AT CRITICAL REGION

16.10 4-12.O. D.A. WATER-IN-OIL EMULSION DROPLET
20 min Melenevskyy PRODUCTION AND OSCILLATION
DRIVEN BY ELECTROSPRAY

**16.35 – 17.20 COFFEE BREAK, POSTER SESSION:
1-45.P. - 1-52.P.; 3-25.P. – 3-33.P.; 4-13.P. – 4-24.P.; 6-15.P. - 6-30.P.;
7-13.P. - 7-17.P.**

Chairman V.K. Koltover

17.20 20 min	4-13.O.	L.A. Bulavin, D.A. Gavryushenko, K.G. Kravchuk, V.M. Sysoev	THE DISTRIBUTION OF BINARY SOLUTION DENSITY AND COMPONENT CONCENTRATION IN A WEDGE-SHAPED PORE
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**II. SOLUTIONS OF LOW- AND HIGH-MOLECULAR
SUBSTANCES. THEIR ROLE IN VITAL ACTIVITY OF HUMAN
BODY**

Chairman V.K. Koltover

17.45 30 min	6-9. O.	T.Yu. Tchesskaya	A GENERALIZED ZIMM THEORY: HYDRODYNAMIC SCREENING IN POLYMER SOLUTIONS
18.20 20 min	6-10.O.	O.Yu.Aktan	THE TORSIONAL VIBRATIONS METHOD FOR THE RIGID STRUCTURES FORMATION PROCESS STUDYING IN THE BIOPOLYMERS SOLUTIONS
18.45 20 min	6-11.O.	N.F. Gamaleia, E.D.Shishko, V.M. Yashchuk, O.V. Slobodyanyuk, M.Yu. Losytskyy, A.B.Shcherbakov, A.V.Usatenko	THE COMPLEX SYSTEM OF POLYVINYLPYRROLIDON- STABILIZED GOLD NANOPARTICLES WITH HEMATOPORPHYRIN FOR PHOTODYNAMIC THERAPY OF TUMORS

Room № 200

III. PHASE TRANSITIONS AND CRITICAL PHENOMENA

Chairman O.V. Chalyi

14.45 30 min	3-17. O.	M.P. Kozlovskii, I.G. Khlypavka	ANALYTIC METHOD FOR CALCULATION OF A FREE ENERGY OF THE 3D ISING MODEL AT THE PRESENCE OF AN EXTERNAL FIELD
15.20 30 min	3-18. O.	A. P. Grinin, F. M. Kuni, G. Yu. Gor	NON-STEADY EFFECT OF RAPID INCREASE OF BUBBLE GROWTH RATE WITH THE INCREASE OF SOLUTION SUPERSATURATION
15.55 20 min	3-19. O.	P. P. Bezverkhy, V. G. Martynets, E. V. Matizen, A. B. Kaplun, A. B. Meshalkin	GENERALIZED EQUATION OF FLUID AND GAS STATE, INCLUDING CLASSICAL AND SCALING PARTS
16.20 20 min	3-20.O.	V.L. Kovarskii, A.A. Galkin	KINETIC PROPERTIES OF THE ISING MODEL WITH BARRIERS

16.45 – 17.30 COFFEE BREAK, POSTER SESSION:

1-45.P. - 1-52.P.; 3-25.P. – 3-33.P.; 4-13.P. – 4-24.P.; 6-15.P. - 6-30.P.;
7-13.P. - 7-17.P.

Chairman R. M. Yulmetyev

17.30 20 min	3-21.O.	V.N.Ryzhov, Yu.D.Fomin, N.V.Gribova	PHASE DIAGRAM, ANOMALOUS BEHAVIOR AND QUASI-BINARY AMORPHOUS PHASE IN A 3D SYTEM OF PARTICLES WITH REPULSIVE- SHOULDER INTERACTION
17.55 20 min	3-22.O.	A.D. Alekhin	EQUATION OF STATE FOR NANO- SYSTEMS NEAR THE CRITICAL POINT

18.20 20 min	3-23.O.	S.O. Zabegaev, R. M Khusnutdinoff, R. M. Yulmetyev, V. Yu. Shurygin	MICROSCOPIC DYNAMICS OF COLLODAL GELS
18.45 20 min	3-24.O.	D.R.Djuraev, P.Kh.Musaev, A.K.Amonov, Sh.Sh.Fayziev	THERMODINAMIC FUNCTIONS OF BOSE-GAS AT PHASE TRANSITION UNDER ACTION OF AN EXTERNAL FIELD
19.10 20 min	3-25.O.	A.D. Alekhin, B.Zh.Abdikarimov, Yu. L. Ostapchuk, E.G. Rudnikov	EXTENDED EQUATION OF STATE FOR BINARY SOLUTION NEAR THE CRITICAL CONSOLUTE TEMPERATURE

Room № 300

VII. QUANTUM LIQUIDS. FERROFLUIDS

Chairman M. Balasoiu

14.45 30 min	7-9. O.	V. Tikhiy, A. Rybalko, S. Rubets, E. Rudavskii,	INSTABILITY OF CIRCULAR SUPERFLUID CURRENTS IN He II
15.20 20 min	7-10. O.	M.V. Avdeev, D. Bica, L. Vekas, V.L. Aksenov, A.V. Feoktystov, V.M. Garamus, R. Willumeit	STRUCTURAL ASPECTS OF FERROFLUIDS STABILIZATION WITH MONO-CARBOXYLIC ACIDS

15.45 20 min	7-11. O.	G. A. Sheshin, V. K. Chagovets, E. Ya. Rudavskii, A. A. Zadorozhko	FLOW REGIME OF THE SUPERFLUID HELIUM CAUSED BY OSCILATING FORK
16.10 20 min	7-12.O.	S. S. Kantorovich, J. Cerda, C. Holm	STRUCTURE FORMATION IN BIDISPERSE FERROFLUID MONOLAYERS: THEORY AND SIMULATIONS

**16.35 – 17.20 COFFEE BREAK, POSTER SESSION:
1-45.P. - 1-52.P.; 3-25.P. – 3-33.P.; 4-13.P. – 4-24.P.; 6-15.P. - 6-30.P.;
7-13.P. - 7-17.P.**

Chairman K.E. Nemchenko

17.20 30 min	7-13.O.	I.N. Adamenko, K.E. Nemchenko, V.A. Slipko, A.F.G. Wyatt	COLLECTIVE MODES IN SUPERFLUID HELIUM AT RELATIVE MOTION OF NORMAL AND SUPERFLUID COMPONENTS
17.55 20 min	7-14.O.	S. I. Shevchenko, A. S. Rukin	THEORY OF SUPERFLUIDITY OF WEAKLY NONIDEAL POLARIZABLE BOSE GAS
18.20 20 min	7-15.O.	V.D. Khodusov, A.A.Blinkina, D.M. Litvinenko	EQUATION OF TWO-FLUID HYDRODYNAMICS OF SUPERFLUID HELIUM WITH THE ECCOUNT OF ELECTRICAL FIELDS
18.45 20 min	7-16.O.	I.N. Adamenko, Yu.A. Kitsenko, K.E. Nemchenko, V.A. Slipko, A.F.G. Wyatt	FOUR-PHONON PROCESSES IN LIQUID HELIUM
19.10 20 min	7-17.O.	M.Balasoiu, V.L.Aksenov, D.Bica, L.Vekas, S.G. Barsov, S.I. Vorobyev,	MAGNETIC MICROSTRUCTURE ANALYSIS OF Fe ₃ O ₄ /DBS-DBS/ D ₂ O FERROFLUID FROM μ SR SPECTROSCOPY DATA

K.I. Gritsaj,
 V.N. Duginov,
 E.N. Komarov,
 V.P. Koptev,
 S.A. Kotov,
 T.N. Mamedov,
 C.M.
 Mikirtychyants,
 G.V.
 Shcherbakov,
 V.Tripadus

Room № 209

I. THERMODYNAMICS, STRUCTURE AND INTERMOLECULAR INTERACTION IN FLUIDS

Chairman V. E. Pogorelov

14.45 30 min	1-25. O.	C. Nadejde, D. E. Creanga, I. Humelnicu, D. O. Dorohoi	STUDY ON THE INTERMOLECULAR INTERACTIONS IN TERNARY SOLUTIONS – CALCULATION OF MICROSCOPIC PARAMETERS OF RIFAMPICIN MOLECULES
15.20 20 min	1-26. O.	V.Pogorelov, I.Doroshenko, O.Yevglevsky	CLUSTERIZATION IN LIQUID ALCOHOLS
15.45 20 min	1-27. O.	V.Yu.Bardic, N.P.Malomuzh, K.S.Shakun, V.M.Sysoev	INTERMOLECULAR POTENTIAL FOR SIMPLE LIQUIDS AND GASES IN THE HIGH PRESSURE REGION
16.10 20 min	1-28.O.	N.A. Atamas, A.A. Atamas	THE INVESTIGATIONS OF STRUCTURE AND ENERGETICS IN WATER-PROPANOL SOLUTION BY MONTE CARLO METHOD

**16.35 – 17.20 COFFEE BREAK, POSTER SESSION:
1-45.P. - 1-52.P.; 3-25.P. – 3-33.P.; 4-13.P. – 4-24.P.; 6-15.P. - 6-30.P.;
7-13.P. - 7-17.P.**

Chairman J. Blazejowski

17.20 30 min	1-29.O.	V.I. Moroz, A.D. Roshal, V.G. Pivovarenko, A. Wroblewska, A. Sikorski, J. Blazejowski	FLAVONOLS AND DIFLAVONOLS AS SPECTRAL PROBES FOR MONITORING FEATURES OF LIQUIDS
17.55 20 min	1-30.O.	A.I. Abramovich, L.V. Lanshina	INFLUENCE OF METHYL GROUP ON PHYSICOCHEMICAL PROPERTIES OF CHLOROBENZENE- <i>O</i> - CHLOROTOLUENE SOLUTIONS
18.20 20 min	1-31.O.	V. N. Bondarev	TOWARD THE THEORY OF VIRIAL COEFFICIENTS: NEW RESULTS
18.45 20 min	1-32.O.	V.I. Bulavin, I.N. Vyunnik, A.V. Kramarenko	NON-COULOMB INTERPARTICLE INTERACTIONS IN ALCOHOL ELECTROLYTE SOLUTIONS

POSTERS

MAY, 24, 2008

10.35 – 11.20

POSTERS 1-1. P. – 1-18. P.

I. THERMODYNAMICS, STRUCTURE AND INTERMOLECULAR INTERACTION IN FLUIDS

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| 1-1. P. | V. Shvets,
O. Vlasenko,
S. Artemenko | THE EQUATION OF STATE OF
LIQUID METALLIC HYDROGEN |
| 1-2. P. | V. Antonchenko,
N.Gloskovskaya,
V.Ilyin | COMPRESSIBILITY “MAPS” OF 1D
SQUARE-WELL FLUIDS |
| 1-3. P. | L.A. Bulavin,
V.I. Slisenko,
A.A. Vasilkevich,
A.V. Kovalev,
P.G. Ivanitsky,
V.V. Krotenko,
E.V. Korbetsky | NEUTRON RESEARCHES OF
DYNAMICS OF MOLECULES OF A
WATER-ETHANOL SOLUTIONS |
| 1-4. P. | L.A. Bulavin,
V.I. Slisenko,
A.A. Vasilkevich,
A.V. Kovalev | TEMPERATURE FEATURES OF
DYNAMICS OF MOLECULES IN D ₂ O-
CHOH(CH ₂ OH) ₂ SOLUTION |
| 1-5. P. | N.A. Atamas,
A.A. Atamas | MONTE CARLO STUDY OF
HYDRATATIONS EFFECTS OF
POLAR AND NON-POLAR
MOLECULES IN WATER AT
(280÷380)K |

- 1-6. P. R. Melnyk,
A. Trokhymchuk,
I. Nezbeda CHOICE OF A REFERENCE SYSTEM
IN A PERTURBATIVE APPROACH TO
SIMPLE FLUIDS
- 1-7. P. Yu.L. Blazhyevskiy,
M.F. Holovko CONFIGURATIONAL INTEGRAL OF
ION SYSTEM IN POROUS MATRIX
- 1-8. P. I.I. Adamenko,
V.F. Korolovich,
K.O. Moroz,
S.P. Nedyak THERMODYNAMIC PROPERTIES OF
LIQUID SYSTEMS CARBON
NANOTUBES-WATER
- 1-9. P. I. Klevets,
T. Bryk AB-INITIO MOLECULAR DYNAMICS
STUDY OF STRUCTURAL AND
DYNAMICAL PROPERTIES OF
LIQUID INDIUM
- 1-10. P. L.A. Bulavin,
A.V. Jakunov,
V.P.Sakun ION ASSOCIATION AND OPTICAL
PROPERTIES OF AQUEOUS
ELECTROLYTE SOLUTIONS WITH
MOLECULAR ANIONS
- 1-11. P. G. Puchkovska,
T. Bezrodna,
V. Melnyk,
J. Baran,
M. Drozd SPECTROSCOPIC INVESTIGATIONS
OF STRUCTURAL RE-ALIGNMENTS
IN 5CB LIQUID CRYSTAL AT LOW
TEMPERATURES
- 1-12. P. S.O.Nikolayenko,
Yu.V.Slyusarenko ON THE HYDRODYNAMICS AND
LONG-WAVE NONEQUILIBRIUM
FLUCTUATIONS IN SYSTEMS OF
PARTICLES, WEAKLY INTERACTING
WITH MEDIUM
- 1-13. P. A.V. Bolotov,
A.P. Satonin,
V.D. Kiselev COMPRESSIBILITY OF LIQUIDS AT
TEMPERATURES FROM 273.15K TO
373.15K AND PRESSURES UP TO 1000
BARS
- 1-14. P. Yu.V.Slyusarenko,
S.O.Nikolayenko THE MICROSCOPIC THEORY OF
SPATIALLY NON-UNIFORM STATES
OF PARTICLES, INTERACTING WITH
HYDRODYNAMIC MEDIUM

- 1-15. P. I. Adamenko,
L. Bulavin, K. Moroz,
Yu. Orlenko, M.P. Kulish,
Yu.I. Prylutskyy,
U. Ritter, P. Scharff
THERMODYNAMIC PROPERTIES OF
MULTI-WALLED CARBON
NANOTUBE WATER SUSPENSION
- 1-16. P. S. Odinaev, K. Komilov
MOLECULAR THEORY OF
STRUCTURAL RELAXATION AND
THERMOELASTIC PROPERTIES OF
MAGNETIC LIQUIDS
- 1-17. P. S. Odinaev,
K. Komilov,
A. Zaripov
THE FREQUENCY DEPENDENCE OF
THE DYNAMICAL TRANSPORT
COEFFICIENTS AND ELASTIC
MODULES OF THE MAGNETIC
LIQUIDS
- 1-18. P. Erkin N. Shermatov
TWO-POTENTIAL MODEL OF
LIQUIDS AND FUNCTIONAL
PROPERTIES OF THE BRAIN

POSTERS 2-1. P. – 2-14. P.

II. TRANSPORT PHENOMENA

- 2-1. P. I.M. Mryglod,
R. Folk,
O.O. Prytula,
W. Fenz,
M.Yu. Druchok
TRANSPORT PROPERTIES OF
STRONGLY ASYMMETRIC MIXTURES:
MD SIMULATIONS FOR BINARY
LENNARD-JONES LIQUIDS
- 2-2. P. N.V.Kirillova,
V.P.Kazimirov,
G.O.Kharlamova,
V.V.Fomenko
REASONS OF FORMATION OF THE
LIQUID CENTRE OF GROWTH OF ONE-
DIMENSIONAL NANOSTRUCTURES
- 2-3. P. M. Tokarchuk,
Yu. Chernomorets
GENERALIZED EQUATIONS FOR
TRANSPORT OF IONS AND
MOLECULES IN ELECTROLYTE
SOLUTION THROUGH MEMBRANE
STRUCTURES

- 2-4. P. Y.A. Humenyuk,
M.V. Tokarchuk EXTENDED HYDRODYNAMICS FOR
HARD SPHERES FROM THE BBGKY
HIERARCHY
- 2-5. P. V. Kuporov,
I. Mryglod COLLECTIVE DYNAMICS OF IONIC
LIQUIDS: TEMPERATURE
FLUCTUATIONS AND PERTURBATION
THEORY
- 2-6. P. Alekseev O.M.,
Garkusha L.M.,
Lasarenko M.M.,
Maiko O.M.,
Shemidko V.V. THE INFLUENCE OF STRUCTURE
CONFORMATION REARRANGEMENT
ON THE KINETIC PROPERTIES OF
GLUCOSE/NaCl AQUEOUS
SOLUTIONS
- 2-7. P. B.B. Markiv,
I.P. Omelyan,
M.V. Tokarchuk NONEQUILIBRIUM STATISTICAL
OPERATOR IN THE GENERALIZED
MOLECULAR HYDRODYNAMICS OF
FLUIDS
- 2-8. P. A. Toumi,
N. Hafaiedh,
M. Bouanz EFFECT OF (K⁺, Cl⁻) IONS ON THE
SHEAR VISCOSITY OF THE CRITICAL
BINARY MIXTURE TRIETHYLAMINE-
WATER
- 2-9. P. A.A.Ryzhevich,
S.V.Solonevich USE OF NEW TYPES GRADIENT LIGHT
FIELDS FOR MICROPARTICLES
TRANSPORTATION IN LIQUID
- 2-10. P. G.Verbinskaya,
A. Britan,
T. Cleshchenok EVAPORATION OF WATER DROPLETS
AT CONSTANT TEMPERATURE IN
THE ATMOSPHERE OF DIFFERENT
GASES
- 2-11. P. V.V. Klepko,
L.A.Bulavin,
V.I. Slisenko,
O.A. Vasilkevich,
A.O.Fomenko DYNAMICS OF PHOSPHORIC ACID IN
PROTON-CONDUCTING HYBRID SOL-
GEL MEMBRANES
- 2-12. P. Z.Yu. Chelbaevsky,
S.A. Sokolovsky,
A.I. Sokolovsky TO THE BURNETT APPROXIMATION
IN HYDRODYNAMICS

- 2-13. P. P. Argyrakis,
D.V. Gapanjuk,
V.S. Vikhrenko INTERPLAY OF COMPONENT
MOBILITIES IN TWO-COMPONENT
LATTICE FLUIDS
- 2-14. P. Vitaly P. Zhelezny,
Yu.V.Semenyuk,
V.V.Sechenih,
S.V.Nichenko,
T.L.Lofovsky NEW METHOD FOR PREDICTION OF
THE THERMOPHYSICAL
PROPERTIES FOR THE REFRIGERANT-
OIL SOLUTION

POSTERS 3-1. P. – 3-7. P.

III. PHASE TRANSITION AND CRITICAL PHENOMENA

- 3-1. P. Emna Cherif RELATIONSHIP BETWEEN
ELECTRICAL CONDUCTIVITY AND
THERMODYNAMIC PROPERTIES OF
IONIC BINARY FLUIDS
- 3-2. P. I.V. Pylyuk,
M.P. Kozlovskii THREE-DIMENSIONAL ISING-LIKE
SYSTEM IN AN EXTERNAL FIELD:FREE
ENERGY OF THE ρ^6 MODEL AS
FUNCTION OF TEMPERATURE AND
FIELD
- 3-3. P. A.I. Karasevskii,
V. V. Lubashenko SIZE EFFECT ON MELTING OF
NANOCRYSTALS
- 3-4. P. Yu. Plevachuk,
V. Sklyarchuk,
O. Alekhin,
L. Bulavin DETERMINATION OF THE BINODAL
LINE IN Pb-Zn MONOTECTIC SYSTEM
BY VISCOSITY MEASUREMENTS
- 3-5. P. D. Ivaneyko,
B. Berche,
Yu. Holovatch,
J. Illytskyi ON THE UNIVERSALITY CLASS OF 3D
ISING MODEL WITH LONG-RANGE-
CORRELATED DISORDER
- 3-6. P. M. Bouanz,
T. Kouissi ELECTRICAL CONDUCTIVITY AND
REFRACTIVE INDEX OF KCL SALT-
SATURATED 1, 4-DIOXANE + WATER
CRITICAL MIXTURE

- 3-7. P. M.P. Kozlovskii, THE HIGHER ODD CUMULANTS
P.R. Kozak INFLUENCE ON FUNCTIONAL
REPRESENTATION OF ISING MODEL
PARTITION FUNCTION NEAR THE
PHASE TRANSITION

POSTERS 5-1. P. – 5-11. P.

V. WATER AND WATER SYSTEMS IN NORMAL AND METHASTABLE STATE

- 5-1. P. E.V. Orlov DIFFUSION IN TREHALOSE – WATER SOLUTIONS
- 5-2. P. E.N. Zhivotova, PHASE BEHAVIOUR OF A SYSTEM
A.V. Zinchenko, WATER – OXYETHYLATED
L.G. Kuleshova, GLYCEROL OF POLYMERIZATION
E.V. Dukhopelnikov DEGREE $n = 25$
- 5-3. P. I. S. Yermolenko, STABILIZING OF
T. A. Alekseyeyeva, ALBUMIN/NANOTUBES AQUEOUS
S. P. Oshkaderov, SUSPENSIONS
S. V. Mikhalovsky, BY FREEZING-THAWING TECHNIQUE
N. I. Lebovka
- 5-4. P. V.B.Rogankov, FLUCTUATION EQUATION OF STATE
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