

July 25 (Monday):

OPENING



SESSION 1

/Chair: Michael Murillo/

Keynote Lecture

DENSE ASTROPHYSICAL PLASMAS

Gilles Chabrier



Invited Lecture

XUV ABSORPTION IN ALUMINUM: FIRST-PRINCIPLES OPACITY CALCULATIONS

Michael P. Desjarlais, Sam M. Vinko, Justin S. Wark, Gianluca Gregori

NON-CONGRUENT PHASE TRANSITIONS IN COSMIC AND LABORATORY PLASMAS

Igor Iosilevskiy



PLASMA MODES AND COLLISION FREQUENCY – FROM BULK TO CLUSTER

H. Reinholz, T. Raitza, I. Morozov, I. Broda, G. Röpke



SESSION 2

/Chair: Vladimir Filinov/

Invited Lecture

DYNAMIC COMPRESSION OF STRONGLY COUPLED PLASMAS AT MEGABARS

V. E. Fortov, R. I. Il'kayev, M. A. Mochalov, M. V. Zhernokletov, A. L. Mikhailov,
A. N. Starostin, V. B. Mintsev, I. L. Iosilevskiy, V. Ya. Ternovoi

Invited Lecture

CHARACTERIZATION OF ALPHA-QUARTZ FOR USE AS A HIGHLY ACCURATE STANDARD IN MULTI-MBAR HUGONIOT EXPERIMENTS

M. D. Knudson, M.P. Dejsarlais

SESSION 3

/Chair: Péter Hartmann/

Invited Lecture

RECENT RESULTS ON STRONGLY INTERACTING QUARK-GLUON PLASMA AT LHC ENERGIES

Peter Lévai



PROTON RADIOGRAPHY OF STRONGLY COUPLED PLASMA

V. B. Mintsev, S. A. Kolesnikov, S. V. Dudin, N. S. Shilkin, D. S. Yuriev, V. I. Turtikov, A. A. Golubev, B. Yu. Sharkov, V. E. Fortov



THEORETICAL MODELS FOR LIGHT SCATTERING FROM DENSE MATTER

D. O. Gericke, D. A. Chapman, K. Wuensch, J. Vorberger



STRONG-COUPPLING THEORY OF COUNTER-IONS AT CHARGED PLATES

Ladislav Šamaj, Emmanuel Trizac

SPECIAL SESSION: THIRTY-FIVE YEARS WITH STRONGLY COUPLED COULOMB SYSTEMS

/Chair: Ken Golden/

Invited Lecture

35 YEARS OF STRONGLY COUPLED PLASMAS

Gabor J. Kalman



Invited Lecture

ONLY TWENTY YEARS WITH SCCS: SO WHAT'S NEW FOR DEBYE, BJERRUM, AND LANDAU?

Michael Fischer

Invited Lecture

BOUND STATES IN COULOMB SYSTEMS – OLD PROBLEMS AND NEW SOLUTIONS

Werner Ebeling



July 26 (Tuesday):

SESSION 1

/Chair: David Neilson/

Keynote Lecture

SPATIALLY SEPARATED, GATE VOLTAGE CONTROLLED ELECTRON-HOLE PLASMA IN SEMICONDUCTOR BILAYERS: RECENT PROGRESS AND CHALLENGES

K. Das Gupta, A. F. Croxall, J. W. Waldie, C. A. Nicoll, H. E. Beere, I. Farrer, D. A. Ritchie, M. Pepper



SESSION 2

/Chair: Michael Bonitz/

QMC SIMULATIONS OF 2D ELECTRONS WITH DISORDER AND DIVERGENCE OF THE SPIN SUSCEPTIBILITY AT THE MIT IN SI-MOSFETS

G. Senatore, S. De Palo

Invited Lecture

STRONGLY COUPLED COULOMB SYSTEMS IN GRAPHENE QUANTUM DOTS

Pawel Hawrylak, A.D. Güçlü, P. Potasz, O. Voznyy, M.Korkusinski

SESSION 3

/Chair: Angel Alastuey/

Invited Lecture

COULOMB DRAG AND SPIN HALL DRAG: NEW COUPLING MECHANISMS FOR NANOELECTRONICS

G. Vignale

TRANSPORT OF TWO-DIMENSIONAL ELECTRONS THROUGH NARROW CHANNELS WITH CONSTRICTION: “QUANTIZED” CONDUCTANCE IN CLASSICAL SYSTEM

H. Totsuji

ABNORMAL PRESSURE FLUCTUATIONS IN NONDEGENERATE NONIDEAL PLASMA

A. Lankin, G. Norman, I. Saitov



July 27 (Wednesday):

SESSION 1

/Chair: Vladimir Fortov/

Keynote Lecture

DEVELOPMENT AND APPLICATIONS OF SIMULATIONS FOR DENSE HYDROGEN AND HELIUM

David Ceperley



Invited Lecture

LONG-RANGE CORRELATIONS OF THE SURFACE CHARGE BETWEEN TWO ELECTRICAL MEDIA

Ladislav Šamaj



Invited Lecture

MOMENTUM DISTRIBUTION AND EFFECTIVE MASS OF JELLIUM MOMENTUM DISTRIBUTION AND THE EFFECTIVE MASS OF THE ELECTRON GAS IN TWO AND THREE DIMENSIONS AT METALLIC DENSITIES

M. Holzmann



Invited Lecture

STRONGLY COUPLED COULOMB SYSTEMS OF DUST PARTICLES IN TRAPS AND PLASMAS

Oleg F. Petrov, Vladimir E. Fortov

SESSION 2

/Chair: Marlene Rosenberg/

Invited Lecture

MELTING OF 2D PLASMA CRYSTALS: WAKE-MEDIATED MODE COUPLING INSTABILITY

A. Ivley, L. Couedel, S. Zhdanov, V. Nosenko, H. Thomas, G. Morfill

MAGNETIZED STRONGLY COUPLED PLASMAS – FIRST PRINCIPLE RESULTS

T. Ott, M. Bonitz, P. Hartmann, Z. Donkó



July 28 (Thursday):

SESSION 1

/Chair: Gerd Röpke/

Invited Lecture

MOLECULAR STATES OF CORRELATED ELECTRONS IN A QUANTUM DOT: THEORY AND INELASTIC LIGHT SCATTERING EXPERIMENTS

Massimo Rontani



Invited Lecture

X-RAY SCATTERING DIAGNOSTICS OF SHOCK COMPRESSED COULOMB SYSTEMS

C. Fortmann, H. J. Lee, T. Döppner, A. L. Kritcher, O. L. Landen, R. W. Falcone, S. H. Glenzer



SESSION 2

/Chair: Gaetano Senatore/

COLLECTIVE MODES IN STRONGLY COUPLED BINARY LIQUIDS

Gabor J. Kalman, Zoltán Donkó, Péter Hartmann, Kenneth I. Golden,
Stamatios Kyrko



PRESSURE AND ELECTRICAL RESISTIVITY MEASUREMENTS ON HOT EXPANDED METALS: COMPARISONS WITH QUANTUM MOLECULAR DYNAMICS SIMULATIONS AND AVERAGE ATOM APPROACHES

J. Clérouin



SESSION 3

/Chair: Tlekkabul Ramazanov/

SPIN-POLARIZED SYMMETRIC ELECTRON-HOLE QUANTUM BILAYERS SYSTEM: FINITE WIDTH EFFECT

Mukesh G. Nayak, L. K. Saini



PLASMA POLARIZATION AROUND DUST PARTICLE IN AN EXTERNAL ELECTRIC FIELD

G. I. Sukhinin, A.V. Fedoseev, R.O. Khokhlov, S. Yu. Suslov



EXTENT OF VALIDITY OF THE HYDRODYNAMIC DESCRIPTION OF THE ONE-COMPONENT PLASMA

J. P. Mithen, J. Daligault, B. J. B. Crowley, G. Gregori



July 29 (Friday):

SESSION 1

/Chair: James Dufty/

Invited Lecture

CRITICAL BEHAVIOR IN SOLUTIONS OF IONIC LIQUIDS

W. Schröer, V.R. Vale, B. Rathke, J. Köser



Invited Lecture

MATTER UNDER EXTREME CONDITIONS AND THE INTERIOR OF SOLAR AND EXTRASOLAR GIANT PLANETS

R. Redmer, A. Becker, B. Holst, M. French

CRYSTALLIZATION OF HIGHLY CHARGED COLLOIDS UNDER STRONG CONFINEMENT

R. Messina, L. Assoud, E. Oguz, H. Löwen



Invited Lecture

MANY-BODY CORRELATIONS AND ELECTROSTATIC INTERACTIONS IN ELECTROLYTE SYSTEMS

Roland Kjellander

WIDTH SPREADING AND TESTS OF WAVE PACKET MOLECULAR DYNAMICS

Paul E. Grabowski, Andreas Markmann, Michael S. Murillo



SESSION 2

/Chair: Manfred Schlanges/

Invited Lecture

THE ATTOSECOND FACILITY OF THE EXTREME LIGHT INFRASTRUCTURE IN HUNGARY

Péter Dombi

Invited Lecture

UNIVERSAL PROPERTIES OF A STRONGLY INTERACTING FERMI GAS

P. D. Drummond



SESSION 3

/Chair: Zoltán Donkó/

Invited Lecture

SUPERFLUIDITY AND EXCITATION SPECTRUM IN 2D DIPOLE SYSTEMS

A. V. Filinov, M. Bonitz



APPLICATION OF THE WAVE PACKET MOLECULAR DYNAMICS TO SIMULATION OF NONIDEAL PLASMAS AT MODERATE TEMPERATURES

Igor V. Morozov, Ilya A. Valuev



EFFECTIVE POTENTIALS AND SOME PHYSICAL PROPERTIES OF A STRONGLY COUPLED COMPLEX PLASMAS

T.S. Ramazanov, K.N. Dzhumagulova, M.T. Gabdullin,
Zh.A. Moldabekov, Yu.A. Omarbakiyeva



CLASSICAL REPRESENTATION OF A QUANTUM SYSTEM AT EQUILIBRIUM

James W. Dufty, Sandipan Dutta



CLOSING CEREMONY



POSTERS

POSTER SESSION "A"

PA-01 CONTROL OF IONIZATION IN THE INTERACTION OF STRONG LASER FIELDS WITH DENSE SILVER NANOPLASMAS

M. Schlanges, Th. Bornath, P. Hilse, M. Moll



PA-02 PHASE TRANSITIONS IN HYDROGEN AT MEGABAR PRESSURES

V. S. Vorob'ev, V.G Novikov, A. L. Khomkin, A. S. Shumikhin

PA-03 QUANTUM MONTE CARLO SIMULATIONS OF STRONGLY COUPLED QUARK-GLUON PLASMA

V.S. Filinov, M. Bonitz, Yu.B. Ivanov, V.E. Fortov, P.R. Levashov



PA-04 PROTON CRYSTALLIZATION IN A DENSE HYDROGEN PLASMA

V.S. Filinov, M. Bonitz, H. Fehske, V.E. Fortov, P.R. Levashov



PA-05 INDUCED INVERSE BREMSSTRAHLUNG FOR DENSE PLASMAS IN INTENSE LASER FIELDS

M. Moll, P. Hilse, M. Schlanges, Th. Bornath, V.P. Krainov



PA-06 THERMODYNAMICAL AND TRANSPORT PROPERTIES OF DENSE H-HE MIXTURES

F. Soubiran, C. Winisdoerffer, S. Mazevet, G. Chabrier



PA-07 THE ELECTRON TRANSPORT COEFFICIENTS OF AG AND AU PLASMA

E. M. Apfelbaum



PA-08 CONFIGURATION PATH INTEGRAL MONTE CARLO

M. Bonitz, T. Schoof, A. Filinov, D. Hochstuhl



PA-09 COLLECTIVE EXCITATIONS OF A SPHERICALLY CONFINED DUSTY PLASMA

H. Kählert, M. Bonitz



PA-10 GENERALIZED LINEAR MIXING RULE FOR COULOMB MIXTURES
















A. I. Chugunov









PA-11 DYNAMIC STRUCTURE FACTOR OF SINGLE HARMONIC OSCILLATOR AND LINEAR HARMONIC CHAIN







August Wierling, Isao Sawada




















- PA-12 **DYNAMICAL SCREENING APPROACH TO STRONGLY CORRELATED MULTI-COMPONENT PLASMAS**
P. Ludwig, M. Bonitz, H. Kählert, J. Dufty 
- PA-13 **DYNAMIC SCREENING IN SOLAR AND STELLAR NUCLEAR REACTIONS**
W. Däppen, K. Mussack 
- PA-14 **BREAKING STRESS OF NEUTRON STAR CRUST**
A. I. Chugunov, C. J. Horowitz 
- PA-15 **WIDE-RANGE EQUATIONS OF STATE FOR METALS AT HIGH ENERGY DENSITIES**
K. V. Khishchenko 
- PA-16 **PAIR INTERACTION POTENTIAL OF PARTICLES FOR TWO-COMPONENT PLASMA**
Zh. A. Moldabekov, T. S. Ramazanov, K. N. Dzhumagulova
- PA-17 **COMPOSITION AND THERMODYNAMIC PROPERTIES OF DENSE ALKALI METAL PLASMAS**
M.T. Gabdullin, T.S. Ramazanov, K.N. Dzhumagulova
- PA-18 **PLASMA DIAGNOSTICS APPLYING K-LINE EMISSION PROFILES OF MID-Z MATERIALS**
A. Sengebusch, K. Karstens, Y. Chen, H. Reinholz 
- PA-19 **EQUATION OF STATE FOR HIGH-DENSITY HYDROGEN**
J. Vorberger, D.O. Gericke, W.-D. Kraeft 
- PA-20 **TEMPERATURE RELAXATION IN DENSE TWO-TEMPERATURE PLASMAS**
J. Vorberger, D.O. Gericke, Th. Bornath, M. Schlanges 
- PA-21 **"HEATING" OF DUST PARTICLE MOTION IN PLASMA OF GAS DISCHARGE**
G. E. Norman, A. V. Timofeev
- PA-22 **THERMODYNAMIC PROPERTIES OF DENSE METALLIC PLASMA BY FIRST-PRINCIPLE CALCULATIONS**
P. R. Levashov, D. V. Minakov, K. V. Khishchenko, G. V. Sin'ko, N. A. Smirnov 
- PA-23 **ISENTROPIC COMPRESSION OF DEUTERIUM BY QUANTUM MOLECULAR DYNAMICS**
A. V. Chentsov, P. R. Levashov 
- PA-24 **SEMIEMPIRICAL EQUATIONS OF STATE FOR METALS BASED ON THE THOMAS-FERMI MODEL**
O. P. Shemyakin, P. R. Levashov and K. V. Khishchenko 
- PA-25 **MODELING OF INTERACTION OF INTENSE ULTRASHORT LASER PULSES WITH METALS**
M. E. Povarnitsyn, T. E. Itina, P. R. Levashov, K. V. Khishchenko 
- PA-26 **STREAMING INSTABILITIES IN YUKAWA LIQUIDS**
M. Rosenberg, G. J. Kalman 
- PA-27 **THE ORIGIN OF THE ROTON MINIMUM**
Gábor J. Kalman, Stamatios Kyrkos, Kenneth I. Golden, Péter Hartmann, Zoltán Donkó 
- PA-28 **SHEAR MODULUS OF THE NEUTRON STAR CRUST**
D. A. Baiko 
- PA-29 **X-RAY THOMSON SCATTERING IN WARM DENSE MATTER AT LOW FREQUENCIES**
Michael S. Murillo 

- PA-30 **BOUNDARIES OF THERMODYNAMIC STABILITY FOR WIDE-RANGE ANALYTIC EOS OF FULLY IONIZED ELECTRON-IONIC PLASMAS**
A. Zilevich, I. Iosilevskiy, A. Chigvintsev 
- PA-31 **EQUATION OF STATE OF STRONGLY SHOCK COMPRESSED GASES AT MEGABAR PRESSURE RANGE**
V.K. Gryaznov, I.L. Iosilevskiy, V.E. Fortov 
- PA-32 **FRACTIONAL QUANTUM HALL EFFECT IN GRAPHENE**
Csaba Tóke, Jainendra K. Jain 
- PA-33 **A PRACTICAL EQUATION OF STATE FOR THE SUN AND SOLAR-LIKE STARS**
H.-H. Lin, W. Däppen 
- PA-34 **LOW-TEMPERATURE EXTENSIONS OF THE VIRIAL EQUATION-OF-STATE FOR SOLAR MODELING**
Y.-C. Liang, W. Däppen 
- PA-35 **RAMAN SPECTRA OF $\text{InAs}_x\text{P}_{1-x}$ ALLOY FILMS UNDER HYDROSTATIC PRESSURE**
Ta-Ryeong Park, Jun Seok Byun, Y. D. Kim 

POSTER SESSION "B"

- PB-01 **GROUND STATE CONFIGURATIONS AND MELTING CHARACTERISTICS OF A TWO-DIMENSIONAL DUST CLUSTERS**
M. Issaad, M. Djebli
- PB-02 **NUMERICAL ALGORITHMS FOR MODELING MHD FLOWS AT LOW AND HIGH MAGNETIC FIELD**
A. I. Al Mussa
- PB-03 **MAGNETIC TRAP FOR COULOMB CLUSTERS OF DIAMAGNETIC PARTICLES**
L. G. D'yachkov, S. F. Savin, O. F. Petrov, A. V. Gavrikov, R. A. Timirkhanov, A. Y. Kaleri, A. V. Markov, I. V. Churilo, M. M. Vasiliev, V. E. Fortov 
- PB-04 **EQUATION OF STATE OF DENSE PLASMAS OF MIXTURE: APPLICATION TO THE CENTER OF THE SUN**
J. C. Pain, G. Dejonghe, T. Blenski 
- PB-05 **DINAMIC DUST PARTICLE CONFINEMENT IN CORONA DISCHARGE PLASMA**
D. S. Lapitsky, V. Filinov, L.V. Deputatova, L.M. Vasilyak, V.I. Vladimirov, O.A. Sinkevich 
- PB-06 **NONLINEAR RESPONSE THEORY OF NON-IDEAL CHARGED AND NEUTRAL MATTER**
G.A. Pavlov
- PB-07 **CHARGE CORRELATIONS IN A HARMONIC TRAP**
J. Wrighton, H. Kählert, T. Ott, H. Thomsen, P. Ludwig, M. Bonitz, J. Dufty 
- PB-08 **STRONGLY-COUPLED-COUNTERIONS MEDIATED INTERACTION REGIMES FOR TWO OPPOSITELY CHARGED PLATES**
Fabien Paillusson, Emmanuel Trizac 
- PB-09 **VELOCITY AUTOCORRELATION FUNCTIONS AND DIFFUSION COEFFICIENT OF DUSTY COMPONENT IN COMPLEX PLASMAS**
K.N. Dzhumagulova, T.S. Ramazanov 
- PB-10 **THERMODYNAMICAL FUNCTIONS OF HYDROGEN AT LOW DENSITIES, FROM PLASMA TO MOLECULAR PHASES**
A. Alastuey, V. Ballenegger 

- PB-11 ON THE EFFECT OF ELECTRON'S RUNAWAY IN PARTIALLY IONIZED HYDROGEN SEMICLASSICAL NONIDEAL PLASMA**
K.M. Turekhanova
- PB-12 THE BEHAVIOR OF DUST PARTICLES NEAR LANGMUIR PROBE**
N.Kh. Bastykova, S.K. Kodanova, M.K. Dosbolayev,
T.S. Ramazanov, Y.A. Ussenov
- PB-13 CRYSTALLIZATION OF AN EXCITON SUPERFLUID**
J. Böning, A.V. Filinov, M. Bonitz 
- PB-14 STRONGLY COUPLED FINE PARTICLES PLASMAS AS SOLUTIONS**
H. Totsuji 
- PB-15 CONFIGURATIONAL ENTROPY OF CONFINED WIGNER CLUSTERS**
E. Anisimovas, A. Radzvilavičius 
- PB-16 THE TRIPLE CORRELATION FUNCTION AS A TOOL FOR ANGLE RESOLVED STRUCTURAL ANALYSIS OF SPHERICAL CLUSTERS**
H. Thomsen, P. Ludwig, M. Bonitz, G. Kalman 
- PB-17 STRUCTURES AND DYNAMICS OF YUKAWA AND COULOMB PARTICLES IN CYLINDRICAL SYSTEMS**
H. Totsuji, C. Totsuji 
- PB-18 HOW TO CONVERT SPME INTO P3M: LATTICE GREEN FUNCTIONS AND ERROR ESTIMATES**
V. Ballenegger, J. J. Cerdà, C. Holm 
- PB-19 ON THE NATURE OF DD SYNTHESIS AT INITIAL AND FURTHER STAGES OF VACUUM DISCHARGE WITH DEUTERIUM-LOADED PD ANODE**
Yu. K. Kurilenkov, V.P. Tarakanov, S.Yu. Guskov
- PB-20 THE KINETIC THEORY MOLECULAR DYNAMICS METHOD**
C.A. Fichtl, F.R. Graziani, M.S. Murillo 
- PB-21 COLLECTIVE MODES IN CLASSICAL MASS-ASYMMETRIC BILAYERS**
Kenneth I. Golden, Gabor J. Kalman, Péter Hartmann 
- PB-22 DIFFUSION IN A QUASI-ONE-DIMENSIONAL SYSTEM WITH A PERIODIC SUBSTRATE**
J. C. N. Carvalho, K. Nelissen, W. P. Ferreira, G. A. Farias, F. M. Peeters 
- PB-23 NON-IDEAL DUST STRUCTURES IN CRYOGENIC COMPLEX PLASMAS**
S. N. Antipov, M. M. Vasiliev, M. M. Alyapyshev, O. F. Petrov,
V. E. Fortov
- PB-24 GROUND STATE STRUCTURES OF SUPERPARAMAGNETIC DUSTY PLASMA CRYSTALS**
P. Hartmann, M. Rosenberg, G. J. Kalman, Z. Donkó 
- PB-25 DENSITY-DENSITY CORRELATIONS WITHIN A NANOSAMPLE IRRADIATED BY AN XFEL PULSE**
Z. Jurek, R. Thiele, B. Ziaja, R. Santra 
- PB-26 STRUCTURAL AND THERMODYNAMICAL PROPERTIES OF DUSTY PLASMA PARTICLES**
F.B. Baimbetov, A.E. Davletov, Ye.S. Mukhametkarimov,
Zh.A. Kudyshev
- PB-27 LASER FOCUSING AND MULTIPLE IONIZATION OF ARGON IN A HYDROGEN PLASMA CHANNEL CREATED BY A PRE-PULSE**
Updesh Verma, A. K. Sharma
- PB-28 SIMULATION OF LASER MANIPULATION EXPERIMENTS WITH FINITE SIZE DUST CLUSTERS**
H. Thomsen, H. Kählert, M. Bonitz 

- PB-29** **STRUCTURAL PHASE TRANSITIONS IN CRYOGENIC DUST PLASMA OF GLOW DISCHARGE**
D. N. Polyakov, V. V. Shumova, L. M. Vasilyak, V. E. Fortov
- PB-30** **INFLUENCE OF DUST PARTICLES ON CRYOGENIC PLASMA OF GLOW DISCHARGE IN NEON**
D. N. Polyakov, V. V. Shumova, L. M. Vasilyak, V. E. Fortov
- PB-31** **STUDY OF GLOW DISCHARGE POSITIVE COLUMN IN AIR WITH DUST STRUCTURES**
D. N. Polyakov, V. V. Shumova, L. M. Vasilyak, V. E. Fortov
- PB-32** **INFLUENCE OF DUST PARTICLES ON POSITIVE COLUMN OF GLOW DISCHARGE IN NEON**
D. N. Polyakov, V. V. Shumova, L. M. Vasilyak, V. E. Fortov
- PB-33** **RESONANCE EFFECTS AT ACTION OF NANOSECOND PULSES ON DUSTY PLASMA STRUCTURES**
V.N. Naumkin, D.A. Fatkullin, V.I. Molotkov, V.Ya. Pecherkin, D.N. Polyakov, L.M. Vasilyak V.E. Fortov
- PB-34** **SELF-CONSISTENT RADIAL DISTRIBUTIONS OF DUSTY PLASMA PARAMETERS IN A DC GLOW DISCHARGE**
G. I. Sukhinin, A. V. Fedoseev 
- PB-35** **MOLECULAR DYNAMICS SIMULATION OF MODERATELY COUPLED YUKAWA LIQUIDS ON GRAPHICS PROCESSING UNITS**
Áron Budea, Aranka Derzsi, Péter Hartmann, Zoltán Donkó 
- PB-36** **ANOMALOUS SCENARIO FOR SPINODAL DECOMPOSITION OF METASTABLE MELTING IN THE ZERO-TEMPERATURE LIMIT**
A.Yu. Chigvintsev, I.L. Iosilevskiy 
- PB-37** **GLOBAL COLD CURVE. THERMODYNAMICS OF ZERO-TEMPERATURE PLASMA FROM ULTRA-LOW TO ULTRA-HIGH DENSITIES**
Igor Iosilevskiy 
- PB-38** **DYNAMIC SHEAR VISCOSITY IN A 2D YUKAWA SYSTEM**
A. Zs. Kovács, P. Hartmann, Z. Donkó 
- PB-39** **DUSTY PLASMA STRUCTURES IN HE–KR DC GLOW DISCHARGE**
S. N. Antipov, M. M. Vasil'ev, S. A. Maiorov, O. F. Petrov, V. E. Fortov
- PB-40** **PHYSICAL FEATURES OF BINARY COULOMB CRYSTALS**
Andrey Kozhberov and Denis Baiko 