

Conference/Workshop Timetable

	Sept. 12, Monday		Sept. 13, Tuesday		Sept. 14, Wednesday		Sept. 15, Thursday	
Chairmen	Session I N. Shulga M. Sadowski		Session IV S. Masuzaki V. Klepikov		Session VII O. Ågren V. Sizyuk		Session X I. Nedzelskiy F. Castejón	
8:00-9:00 9:00	Registration Opening						<u>Arrival to NSC KIPT</u>	
9:15-9:55	I-17 A. Zagorodny	9:15-9:55	I-09 V. Moiseenko	9:15-9:55	I-12 M. Sadowski	9:15-9:55	I-01 O. Ågren	
9:55-10:35	I-08 S. Masuzaki	9:55-10:35	I-18 R. Zhou	9:55-10:35	I-19 V. Zhovtyansky	9:55-10:35	I-04 A. Drenik	
10:35-11:15	I-07 N. Marushchenko	10:35-11:15	I-06 V. Sizyuk	10:35-11:15	I-05 A. Goncharov	10:35-11:15	I-02 V. Bobkov	
11:15-11:40	Coffee break	11:15-11:40	Coffee break	11:15-11:40	Coffee break	11:15-11:40	Coffee break	
Chairmen	Session II A. Zagorodny N. Azarenkov		Session V R. Zhou A. Drenik		Session VIII V. Zhovtyansky R. Sydora		Session XI I. Garkusha I. Onishchenko	
11:40-12:20	I-03 F. Castejón	11:40-12:20	I-15 R. Sydora	11:40-12:20	I-20 A. Ahadi	11:40-12:20	I-11 I. Nedzelskiy	
12:20-12:40	1-03 R. Pavlichenko	12:20-12:40	4-01 V. Zasenکو	12:20-12:40	I-13 E. Skladnik-Sadowska	12:20-12:40	1-01 F. Castejón	
12:40-13:00	1-04 S. Kasilov	12:40-13:00	1-02 M. Dreval	12:40-13:00	8-01 R. Syrotyuk	12:40-13:00	5-01 D. Solyakov	
13:00-14:30	Lunch	13:00-14:30	Lunch	13:00-14:30	Lunch	13:00-13:20	Closing	
14:30-16:00	Poster Session I	14:30-16:00	Poster Session II	14:30-16:00	Poster Session III	13:30-16:00	Lab Tour	
15:40-16:00	Coffee break	15:40-16:00	Coffee break	15:40-16:00	Coffee break	Conference venue: <i>September 12-14, 2016</i> Conference Hall NORTH BUILDING V.N. Karazin Kharkiv National University (Svobody 6) <i>September 15, 2016</i> NSC KIPT (Akademichna 1), Conference Hall		
Chairmen	Session III I. Anisimov A. Yegorov		Session VI I. Girka V. Zasenکو		Session IX V. Voitsenya A. Goncharov			
16:00-16:20	6-01 I. Onishchenko	16:00-16:40	I-14 I. Stefanovic	16:00-16:40	I-10 O. Nedybaliuk			
16:20-16:40	6-02 I. Anisimov							
16:40-17:00	6-03 V. Buts	16:40-17:00	7-02 I. Denysenko	16:40-17:00	7-01 V. Boretskij			
17:00-17:20	6-05 V. Karas'	17:00-17:20	7-06 E. Romashchenko	17:00-17:20	8-02 A. Melnikov			
17:20-17:40	6-04 V. Maslov	17:20-17:40	4-02 A. Momot	17:20-17:40	8-03 A. Zhezhera			
17:40-18:00	6-06 A. Tolstoluzhsky	17:40-18:00	4-03 D. Dadyka	17:40-18:00	7-04 V. Tsiolko			
18:00-18:20	6-07 R. Kniaziev	Excursion to Archeology Museum		18:00-18:20	7-03 D. Hamazin			
18:30-21:00	Welcome reception			18:40-22:00	Conference Dinner			

Monday 12 September

8:00-9:00

Registration

9:00-11:15 SESSION I (CONFERENCE HALL)

Chaired by N. Shulga and M. Sadowski

9.00

Opening Ceremony

9.15 **I-17 POLARIZATION EFFECTS IN MACROPARTICLE INTERACTIONS IN PLASMAS AND PLASMA-LIKE MEDIA** A.G. Zagorodny, A.I. Momot

9.55 **I-08 RECENT PROGRESS OF THE HIGH TEMPERATURE PLASMA STUDY IN THE LARGE HELICAL DEVICE**

S. Masuzaki for the LHD Experiment Group

10.35 **I-07 MAIN RESULTS OF THE FIRST EXPERIMENTAL CAMPAIGN IN THE STELLARATOR W7-X** N.B. Marushchenko for the W7-X team

11.15-11.40 Coffee break

11.40- 13.00 SESSION II (CONFERENCE HALL)

Chaired by A. Zagorodny and N. Azarenkov

11.40 **I-03 TRANSPORT AND PLASMA CONTROL IN THE TJ-II STELLARATOR**

F. Castejón and the TJ-II team and collaborators

12.20 **1-03 PARTICLE AND ENERGY CONFINEMENT IN URAGAN-2M TORSATRON PLASMAS** R.O. Pavlichenko, D.L. Grekov, A.N. Shapoval and Uragan-2M team

12.40 **1-04 NON-LOCAL QUASILINEAR MODELLING OF THE NEOCLASSICAL TOROIDAL VISCOSITY IN TOKAMAKS** C.G. Albert, M.F. Heyn, S.V. Kasilov , G. Kapper, W. Kernbichler , A.F. Martitsch

13.00-14.30 Lunch

14.30-16.00 POSTER SESSION I (CONFERENCE HALL) - 48 posters

Topics:

1 - Magnetic confinement (reports 1-05 – 1-12)

3 - ITER and Fusion Reactor Aspects (reports 3-01 – 3-04)

4 - Basic Plasma Physics (reports 4-05 – 4-08)

5 - Plasma Dynamics and Plasma–Wall Interaction (reports 5-02 – 5-05)

6 - Plasma Electronics (reports 6-08 -- 6-11)

7 - Low Temperature Plasma and Plasma Technologies (reports 7-05; 7-07 – 7-09; 7-11; 7-14; 7-15; 7-17; 7-19 – 7-21; 7-24 – 7-33)

8 - Plasma Diagnostics (reports 8-04 – 8-06)

Poster Abstract

Title

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1. 1-05 CONCERNING LOCALIZATION OF THE RF ABSORPTION AREA VERSUS MAJOR RADIUS IN THE COLD PLASMA OF THE U-2M AND U-3M TORSATRONS IN TERMS OF H_α PROFILE DATA M.B. Dreval, A.M. Shapoval, V.E. Moiseenko, T. Wauters and A. Lysoivan

Monday 12 September

Poster Abstract №	Abstract №	Title
2.	1-06	PHENOMENOLOGICAL MODELLING OF THE SUPRATHERMAL ELECTRON GENERATION DURING MAGNETIC FIELD LINE RECONNECTIONS IN EXPERIMENTAL ADVANCED SUPERCONDUCTING TOKAMAK (EAST) Yu.M. Marchuk, I.M. Pankratov
3.	1-07	ICRF-VOLUME CHARGE-ANTENNA EDGE INTERACTIONS IN THE TORSATRONS U-3M AND U-2M Part 1. FORMATION OF A VOLUME SPACE CHARGE (VSC) OF POSITIVE IONS V.L. Berezhnyj
4.	1-08	ICRF -VOLUME CHARGE-ANTENNA EDGE INTERACTIONS IN THE TORSATRONS U-3M AND U-2M Part 2. VSC-RF ANTENNA INTERACTION V.L. Berezhnyj
5.	1-09	ICRF -VOLUME CHARGE-ANTENNA EDGE INTERACTIONS IN THE TORSATRONS U-3M AND U-2M Part 3. ICRF-SVC INTERACTION V.L. Berezhnyj
6.	1-10	THE REFLECTION AND RE-EMISSION COEFFICIENTS OF HYDROGEN PARTICLES IMPINGING FROM PLASMA ON THE WALL IN THE TORSATRON "URAGAN-3M" V. N. Bondarenko, A. A. Petrushenya
7.	1-11	SUPPRESSION OF FLOWS OF RUNAWAY ELECTRONS AND PECULIARITIES OF THE WORKING GAS BREAKDOWN IN THE URAGAN-2M TORSATRON V.B. Korovin, I.K. Tarasov, E.D. Kramskoy, N.B. Dreval, D.A. Sitnikov, M.M. Kozulya, V.A. Lozin
8.	1-12	EDGE MAGNETIC ISLAND EXCITATION IN THE U-2M TORSATRON V.G. Kotenko, V.E. Moiseenko
9.	3-01	DAMAGE OF CASTELLATED TUNGSTEN TARGETS IN THE COURSE OF ITER ELM-LIKE HEAT LOADS V.A. Makhraj, N.N. Aksenov, O.V. Byrka, V.V. Chebotarev, S.S. Herashchenko, N.V. Kulik, S.I. Lebedev, P.B. Shevshuk, V.V. Staltsov and I.E. Garkusha
10.	3-02	THE STUDY OF THE INFLUENCE OF STATIONARY PLASMA THERMAL IMPACT ON THE STRUCTURE OF BERYLLIUM B.K. Rakhadilov, M.K. Skakov, T.R. Tuleberdiyev
11.	3-03	DEUTERIUM AND HELIUM TRAPPING INTO TUNGSTEN-COATED COMPOSITE STRUCTURES UNDER SEQUENTIAL IRRADIATIONS N.A. Azarenkov, V.V. Bobkov, L.P. Tishchenko, R.I. Starovoitov, Yu.I. Kovtunencko, Yu.E. Logachev, and L.A. Gamayunova
12.	3-04	PRODUCING FINE-DISPERSED MATERIALS FOR THE MAGNETOPLASMA SEPARATION D.V. Vinnikov, N.A. Shulgin, V.V. Katrechko, V.V. Yuferov, V.I. Sokolenko, V.I. Tkachev, A.N. Ponomarev, I.V. Buravilov
13.	4-06	THE INFLUENCE OF THE EXTERNAL MAGNETIC FIELD ON ENERGY LOSSES OF A CHARGED PARTICLE IN AN ELECTRON GAS O.V. Khelemelia, R.I. Kholodov
14.	4-07	THEORETICAL STUDIES OF SLOW WAVE PLASMA HEATING IN URAGAN-3M TORSATRON D. Grekov, K. Tretiak
15.	4-08	ELECTROMAGNETIC WAVE PROPAGATION THROUGH MAGNETOACTIVE PLASMA LAYERS S.V. Ivko, I.B. Denysenko, N.A. Azarenkov
16.	5-02	INVESTIGATION OF SOME FACTORS INFLUENCE ON THE WORK OF EXTRA PURE HYDROGEN GENERATOR G.P. Glazunov, A.L. Konotopskiy, D.M. Vinogradov, M.N. Bondarenko, S.M. Maznichenko, A.P. Svinarenko

Monday 12 September

Poster Abstract №	№	Title
17.	5-03.	RELATIVISTIC ELECTRON BEAM GUIDING BY USING TWO-CONSECUTIVE LASER PULSES S. Malko, X. Vaisseau, J. J. Santos, A. Morace, M. Ehret, F. Pérez, D. Batani, Ph. Nicolai and L. Volpe
18.	5-04.	LASER ACCELERATOR OF PLASMA BEAMS FOR PLASMA-WALL INTERACTION RESEARCH A. Zaráš-Szydłowska, J. Badziak, P. Parys, M. Rosiński
19.	5-05.	EROSION BEHAVIOR OF W-Ta FILMS IN PLASMAS OF STATIONARY MIRROR PENNING DISCHARGES V.A. Belous, M.N. Bondarenko, G.P. Glazunov, A.V. Ilchenko, A.S. Kuprin, A.L. Konotopskiy, V.M. Lunyov, V.D. Ovcharenko.
20.	6-08.	DYNAMICS OF THREE WAVE STOCHASTIC DECAYS IN NONLINEAR MATTER V.A. Buts, I.K.Kovalchuk
21.	6-09.	A STUDY OF THE MICROWAVE AMPLIFICATION IN MILO WITH THE FLAT INTERACTION SPACE A. M. Gorban', Yu. F. Lonin
22.	6-10.	NUMERICAL SIMULATION OF WAKEFIELDS EXCITATION IN THE DIELECTRIC STRUCTURE FILLED WITH INHOMOGENEOUS PLASMA P.I. Markov, I.N. Onishchenko, G.V. Sotnikov
23.	6-11.	HIGHER RADIAL MODES OF AZIMUTHAL SURFACE WAVES IN CYLINDRICAL WAVEGUIDES WITHOUT EXTERNAL MAGNETIC FIELD I. Girka, I. Omelchenko, R. Sydora
24.	7-05	THE MAGNETOPLASMA SEPARATION METHOD OF SPENT NUCLEAR FUEL V.B. Yuferov, S.V. Shariy, T.I. Tkachova, V.V. Katrechko, A.S. Svichkar, V.O. Ilichova, M.O. Shvets, E.V. Mufel
25.	7-07.	ROTATING GLIDING DISCHARGE SUBMERGED IN LIQUID V.V. Iukhymenko, V.Ya. Chernyak, D.K. Hamazin, D.S. Levko
26.	7-08.	FEATURES OF PLASMA FORMATION AT IONIZATION STAGE FOR MAGNETOPLASMA REPROCESSING V.V. Katrechko, V.B. Yuferov, T.I. Tkachova, A.S. Svichkar, S.V. Shariy, V.O. Ilichova
27.	7-09.	THE CALCULATIONS OF TRAJECTORIES OF URANIUM AND LANTHANUM OXIDES AT MAGNETOPLASMA SEPARATION STAGE T.I. Tkachova, V.B. Yuferov, V.V. Katrechko, A.S. Svichkar, V.O. Ilichova
28.	7-11.	ATMOSPHERIC PRESSURE SECONDARY MICRODISCHARGE SYSTEM WITH VORTEX GAS FLOW Ok. Solomenko, Ol. Solomenko, D. Hamazin, V. Chernyak, V. Lendiel, A. Trohimchuk
29.	7-15.	ION MOTION IN CROSSED FIELDS AND SEPARATION MECHANISM IN "ARCHIMEDES PLASMA MASS FILTER" Yu.N. Yeliseyev
30.	7-17.	FEATURES OF COATINGS DEPOSITION IN COMBINED STATIONARY-PULSED OPERATION MODE OF THE MAGNETRON SPUTTERING SYSTEM A.G. Chunadra, K.N. Sereda, I.K. Tarasov, A.A. Bizukov
31.	7-19.	INVESTIGATIONS ON THE PARAMETERS OF MULTICOMPONENT GAS-METAL PLASMA FORMED IN THE MIXED MOLECULAR GASES Yu.V. Kovtun, E. V. Syus'ko, E.I. Skibenko, A.I. Skibenko, A.N. Shapoval, V.B. Yuferov
32.	7-20.	TRIBOLOGICAL PROPERTIES OF VACUUM ARC Cr-O-N COATINGS IN MACRO- AND MICROSCALE A.S. Kuprin, T.A. Kuznetsova, A. Gilewicz, G.N. Tolmachova, V.D. Ovcharenko, S. O. Abetkovskaia, T.I. Zubar, A.L. Khudoley, S.A. Chizhik, O. Lupicka, B. Warcholinsk
33.	7-21.	STRUCTURE AND PROPERTIES OF VACUUM ARC Cr-V-N AND CrN/VN COATINGS A.S. Kuprin, V.D. Ovcharenko, A. Gilewicz, G.N. Tolmachova, I.V. Kolodiy, R.L. Vasilenko, V.N. Voyevodin, O. Lupicka, B. Warcholinski, M. H. Ghaem

Monday 12 September

Poster Abstract		Title
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34.	7-24.	NORMAL MODE OF DC DISCHARGE IN ARGON, HYDROGEN AND OXYGEN V.A. Lisovskiy, K.P. Artushenko, V.D. Yegorenkov
35.	7-25.	CHILD-LANGMUIR LAW FOR CATHODE SHEATH OF GLOW DISCHARGE IN CO₂ V.A. Lisovskiy, H.H. Krol, R. Osmayev, V.D. Yegorenkov
36.	7-26.	FORMING A UNIPOLAR PULSED DISCHARGE IN NITROGEN V.A. Lisovskiy, P.A. Ogloblina, S.V. Dudin, V.D. Yegorenkov, A.N. Dakhov
37.	7-27.	POSITIVE COLUMN CONTRACTION OF THE GLOW DISCHARGE IN NITROGEN V.A. Lisovskiy, V.A. Derevianko, V.D. Yegorenkov
38.	7-28.	STUDY A HALF LIFE OF OZONE IN THE ORGANIC IMPURITIES IN CHANGE OF TEMPERATURE AND HUMIDITY V.S. Taran, V.V. Krasnyj, A.S. Lozina, O.G. Chechelnytskyi, A.V. Schebetun
39.	7-29.	ACOUSTIC METER OF OZONE CONCENTRATION S.P. Gubarev, A.V. Klosovskyi, G.P. Opaleva, V.S. Taran, M.I. Zolototrubova
40.	7-30.	MICROPROCESSOR DEVICE FOR MEASURING THE CONCENTRATION OF OZONE OCM-003 S.P. Gubarev, U. N. Nezovibat'ko, G.P. Opaleva, V.S. Taran, M.I. Zolototrubova
41.	7-31.	OZONE DECAY IN CHEMICAL REACTOR WITH THE DEVELOPED INNER SURFACE O.V. Manuilenko, V.I. Golota
42.	7-32.	A SIMPLE DATA ACQUISITION SYSTEM BASED ON ARDUINO PLATFORM FOR NON-SELF-SUSTAINED GAS DISCHARGE PLASMA DIAGNOSTICS I.O. Misiruk, O.I. Timoshenko, V.S. Taran, I.E. Garkusha
43.	7-33.	INVESTIGATION OF GAS DISCHARGE BURN CONDITIONS IN A PENNING GEOMETRY IN GRADIENT MAGNETIC FIELDS A.N. Ozerov, Yu.V. Kovtun, E.I. Skibenko, V.B. Yuferov
44.	8-04.	ESTIMATIONS OF PLASMA POTENTIAL AND DENSITY BY THE HEAVY ION BEAM PROBING DIAGNOSTIC (HIBP) ON THE URAGAN-2M TORSATRON A.D. Komarov, A.H. Bainaev, A.A. Cmyga, V.V. Chechkin, L.I. Grigor'eva, G.N. Deshko, A.S. Kozachek, L.I. Krupnik, S.M. Khrebtov, Yu.K. Mironov, V.C. Romanov, A.I. Zhezhera
45.	8-05.	A NEW CONTROL UNIT FOR PROBING ION BEAM FORMING IN HIBP DIAGNOSTIC SYSTEMS A.I. Zhezhera, A.A. Cmyga, G.N. Deshko, A.S. Kozachek, A.D. Komarov, L.I. Krupnik, S.M. Khrebtov
46.	8-06.	STUDY OF GAMS AND TURBULENT PARTICLE FLUX DYNAMICS WITH HIBP IN THE T-10 TOKAMAK L.G. Eliseev, A.V. Melnikov, S.A. Grashin, V.P. Lakhin, S.E. Lysenko, A.I. Smolyakov, R.Yu. Solomatin, V.A. Vershkov, L.I. Krupnik, A.S. Kozachek, V.N. Zenin and HIBP
47.	7-14.	MODELING DOPING EFFECTS ON THE CATALYST-ASSISTED GROWTH OF CARBON NANOTUBES IN REACTIVE PLASMA ENVIRONMENT AND THEIR CONSEQUENT FIELD EMISSION PROPERTIES Aarti Tewari
48.	4-05.	ELECTRON LASERS Jyotsna Panwar, Suresh C. Sharma, Rinku Sharma

15.40-16.00 Coffee break

Monday 12 September

16.00-18.00 **SESSION III (CONFERENCE HALL)**

Chaired by I. Anisimov and A. Yegorov

- 16.00 **6-01 ELABORATION OF PLASMA-DIELECTRIC WAKEFIELD ACCELERATOR**
I.N. Onishchenko, G.P. Berezina, R.R. Knyazev, A.F. Linnik, P.I. Markov,
O.L. Omelaenko, V.I. Pristupa, G.V. Sotnikov, V.S. Us
- 16.20 **6-02 TRANSITION RADIATION OF THE MOVING POINT CHARGE IN PLASMA
AS A RESULT OF THE BACKGROUND PLASMA ELECTRONS'
ACCELERATION** V.Y. Hafych, I.O. Anisimov
- 16:40 **6-03 BREAKING OF ENSEMBLES OF LINEAR AND NONLINEAR
OSCILLATORS** V.A. Buts
- 17.00 **6-05 STUDIES OF PLASMA PARAMETERS IN LOW PRESSURE DISCHARGE
INITIATED IN COAXIAL WAVEGUIDE BY MICROWAVE STOCHASTIC
RADIATION** V.I. Karas', A.F. Alisov, A.M. Yegorov, I.V. Karas', S.Yu. Karelin,
I.A. Zagrebelny
- 17.20 **6-04 JOINT WAKEFIELD ACCELERATION BY LASER PULSE AND BY SELF-
INJECTED ELECTRON BUNCHES** V.I. Maslov, O.M. Svystun, I.N. Onishchenko,
O.M. Yegorov
- 17:40 **6-06 PECULIARITY OF THE CHARGED PARTICLES DYNAMICS AT THE
CYCLOTRON RESONANCES** V.A. Buts, V.V. Kuzmin, A.P. Tolstoluzhsky
- 18:00 **6-07 FEATURES OF THE TRANSVERSE DYNAMICS OF ACCELERATED
BUNCH IN THE PLASMA-DIELECTRIC WAKEFIELD ACCELERATOR**
R.R. Kniaziev, G.V. Sotnikov

18:30-21:00 WELCOME RECEPTION (cafe BUNKER , ground floor)

Tuesday 13 September

9:00-11:15 SESSION IV (CONFERENCE HALL)

Chaired by S. Masuzaki and V. Klepikov

- 9.15 **I-09 RADIO-FREQUENCY PLASMA START-UP AND HEATING AT URAGAN STELLARATORS** V.E. Moiseenko, A. Lysoivan, T. Wauters, M. Tripský, A.V. Lozin, R.O. Pavlichenko, M.M. Kozulya, M.B. Dreval, Yu.K. Mironov, V.S. Romanov, A.Ye. Kulaga, N.V. Zamanov, A.N. Shapoval, V.G. Konovalov, V.V. Chechkin, L.I. Grigor'eva, A.A. Beletskii, A.A. Kasilov, V.S. Voitsenya and I.E. Garkusha
- 9.55 **I-18 RUNAWAY ELECTRON INVESTIGATIONS IN EAST TOKAMAK**
Ruijie Zhou, Igor Pankratov, Liqun Hu, and EAST Team
- 10.35 **I-06 DAMAGE EFFECTS OF SECONDARY RADIATION ON ITER DIVERTOR AND NEARBY HIDDEN COMPONENTS DURING TRANSIENT EVENTS**
Ahmen Hassanein and Valeryi Sizyuk

11.15-11.40 Coffee break

11.40- 13.00 SESSION V (CONFERENCE HALL)

Chaired by S. Masuzaki and V. Klepikov

- 11.40 **I-15 NONLINEAR CONVECTIVE TRANSPORT AND AVALANCHES IN MAGNETIZED TEMPERATURE FILAMENTS: THEORY, SIMULATION AND EXPERIMENTS** R.D. Sydora, B.Van Compernelle, G.J. Morales, J.E. Maggs, and S. Karbasheski
- 12.20 **4-01 SUBESEMBLE CONCEPT IN 2D MAGNETIZED PARTICLE TRANSPORT MODEL** V.I. Zasenkov, O.M. Cherniak, A.G. Zagorodny
- 12.40 **1-02 OBSERVATION OF 1–20 kHz FLUCTUATIONS IN THE URAGAN-2M TORSATRON** M.B. Dreval, R.O. Pavlichenko, A.M. Shapoval, F.I. Ozherelyev, Yu.K. Mironov, V.S. Romanov, M.M. Makhov, N.V. Zamanov and A.E. Kulaga

13.00-14.30 Lunch

14.30-16.00 POSTER SESSION II (Conference hall) - 48 posters

- Topics:
- 1 - Magnetic confinement (reports 1-13 – 1-20)
 - 2 - Plasma Heating and Current Drive (reports 2-01 – 2-04)
 - 3 - ITER and Fusion Reactor Aspects (reports 3-05 – 3-08)
 - 4 - Basic Plasma Physics (reports 4-04; 4-09 – 4-15)
 - 5 - Plasma Dynamics and Plasma–Wall Interaction (reports 5-07 – 5-08)
 - 6 - Plasma Electronics (reports 6-12 – 6-15)
 - 7 - Low Temperature Plasma and Plasma Technologies (reports 7-16; 7-34 – 7-39; 7-41 – 7-48; 7-52; 7-53; 7-55)

Poster Abstract

Title

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1. 1-13 **EFFECT OF A NON-CIRCULAR SHAPE OF THE TORUS ON THE $l = 2$ TORSATRON MAGNETIC SURFACES** V.G. Kotenko

Tuesday 13 September

Poster Abstract №	№	Title
2.	1-14	THE DIVERTOR REGION FORMATION IN THE STELLARATOR SYSTEM “YAMATOR” G.G. Lesnyakov
3.	1-15	THE MODE OF RARE COLLISIONS V.K. Pashnev, E.L. Sorokovoy, A.A. Petrushenya, F.I. Ozherel’ev
4.	1-16	STUDY OF WAVE PROCESSES AT THE INITIAL STAGE OF RF-HEATING IN U-3M TORSATRON V.K. Pashnev, I.K. Tarasov, D.A. Sitnikov, E.L. Sorokovoy, S.A. Tsybenko, V.V. Chechkin, L.I. Grigor’eva, A.A. Beletskii, A.A. Kasilov
5.	1-17.	BEHAVIOR DYNAMICS OF LOW-FREQUENCY MHD-FLUCTUATIONS AND MAIN PLASMA PARAMETERS IN U-3M TORSATRON IN RF-HEATING MODE V.K. Pashnev, E.L. Sorokovoy, A.A. Petrushenya, F.I. Ozherel’ev
6.	1-18	EXPERIMENTAL STUDY OF HYDROGEN BALANCE IN VACUUM CHAMBER OF U-3M TORSATRON DURING MAIN OPERATION MODES V.K. Pashnev, A.A. Petrushenya, E.L. Sorokovoy, N.P. Ponomarenko, F.I. Ozherelyev
7.	1-19	RUNAWAY ELECTRONS AND PARAMETRIC INSTABILITY IN THE URAGAN-3M TORSATRON I.K. Tarasov, M.I. Tarasov, D.A. Sitnikov, V.V. Olshansky, V.M. Listopad, N.V. Lymar, M.V. Gnidenko
8.	1-20	OSCILLATORY AND WAVE ACTIVITY IN THE RUNAWAY ELECTRONS FLOW I.K. Tarasov, M.I. Tarasov, D.A. Sitnikov, V.V. Olshansky, V.M. Listopad, N.V. Lymar, M.V. Gnidenko
9.	2-01	SECONDARY EMISSION CATHODE AS ALTERNATIVE OF THERMIONIC CATHODE FOR FUSION WITH MAGNETIC CONFINEMENT S.A. Cherenshchykov
10.	2-02	FEATURES OF ACTIVE POWER DEFINITION IN HIGH-CURRENT PULSED DISCHARGE Ya.O. Hrechko, N.A. Azarenkov, Ie.V. Babenko, D.L. Ryabchikov, I.N. Sereda, M.A. Shovkun, A.F. Tseluyko
11.	2-03	BUILDUP OF PLASMA OSCILLATIONS DURING MODELING THE ELECTROMAGNETIC WAVE PROPAGATION I. Pavlenko, D. Melnyk, M. Nakonechnyi, I. Girka
12.	2-04	CAPACITIVE COMPONENT OF DOUBLE LAYER CURRENT IN PLASMA M.A. Shovkun, Ya.O. Hrechko, N.A. Azarenkov, Ie.V. Babenko, D.L. Ryabchikov, I.N. Sereda, A.F. Tseluyko
13.	3-05	PHYSICAL PARAMETERS OF A REACTOR - STELLARATOR WITH SMALL RIPPLES OF HELICAL MAGNETIC FIELD V.A. Rudakov
14.	3-06	IMPACT OF LONG-TERM SPUTTERING ON MIRROR SAMPLES FABRICATED FROM DIFFERENT KIND TUNGSTEN V.S. Voitsenya, Zhou Zhang-jian, V.G. Konovalov, M.N. Makhov, I.V. Ryzhkov, A.N. Shapoval, O.O. Skoryk, S.I. Solodovchenko, A.F. Stan’, Zhao Ming-yue
15.	3-07	IMPACT OF DEUTERIUM PLASMA IONS ON THE BEHAVIOR OF MIRRORS MADE OF AMORPHOUS ALLOYS V.G. Konovalov, F. Gostin, S.V. Ketov, K.V. Kovtun, D. Luzguine-Luzgin, I.V. Ryzhkov, A.N. Shapoval, A.F. Shtan’, O.O. Skoryk, S.I. Solodovchenko, A.A. Vasil’ev, V.S. Voitsenya
16.	3-08	A FUEL CYCLE FOR MINOR ACTINIDES BURNING IN A STELLARATOR-MIRROR FUSION-FISSION HYBRID S.V. Chernitskiy, V. E. Moiseenko, O. Ågren

Tuesday 13 September

Poster Abstract №	Abstract №	Title
17.	4-04	THE IMPLEMENTATIONS OF MODERN PLASMA SIMULATION CODES BY LARGE PARTICLES-IN-CELL METHOD FOR PARALLEL COMPUTING SYSTEMS D.I.Dadyka, I.O.Anisimov
18.	4-09	STOCHASTIC DIFFERENTIAL EQUATIONS OF CHARGED PARTICLE MOTION IN TOROIDAL PLASMAS A.A. Gurin, V.O. Yavorskij
19.	4-10	DUST GRAINS CHARGING OF LOW TEMPERATURE DUSTY PLASMAS UNDER ION ACOUSTIC PARAMETRIC INSTABILITY ONSET V.V. Olshansky
20.	4-11	EXACT RELATIVISTIC MAXWELLIAN MAGNETIZED PLASMA DIELECTRIC TENSOR EVALUATION FOR ARBITRARY WAVE NUMBERS S.S. Pavlov
21.	4-12	CYCLOTRON WAVE ABSORPTION IN LARGE ASPECT RATIO ELONGATED FAST COMPUTATION OF THE COMPLEX ERROR FUNCTION OF THE REAL ARGUMENT S.V. Malko, S.S. Pavlov, K.K. Tretiak
22.	4-14	IMPACT OF WAVE PHASE JUMPS ON STOCHASTIC HEATING V.I. Zasenko, A.G. Zagorodny, O.M. Cherniak
23.	4-15	FINITE LARMOR RADIUS EFFECTS ON TURBULENT TRANSPORT OF TEST-PARTICLES O.M Cherniak, V.I. Zasenko, A.G. Zagorodny
24.	4-13	EQUILIBRIUM AND STABILITY OF ENSEMBLE OF IONS PRODUCED IN PLASMA IN CROSSED FIELDS AT POSITIVE RADIAL ELECTRIC FIELD Yu.N. Yeliseyev
25.	5-07	EXPERIMENTAL RESEARCH OF CLEANING RF DISCHARGES CREATED BY CRANKSCHAFT AND FRAME ANTENNAS V.E. Moiseenko, A.V. Lozin, V.V. Chechkin, D.I. Baron, L.I. Grigor'eva, Ye.D. Kramskoi, V.B. Korovin, M.M. Kozulya, A.N. Shapoval, V.M. Lystopad, A. Yu. Krasuk, M.B. Dreval, R.O. Pavlichenko and Uragan-2M team
26.	5-08	ALLOYING AND MODIFICATION OF STAINLESS STEELS BY POWERFUL PLASMA STREAMS V. Makhraj, N. Aksenov, O. Byrka, A. Chunadra, S. Heraschenko, S. Malykhin, I. Mikhailov, K. Sereda, S. Surovitskiy, and I. Garkusha
27.	6-12	NUMERICAL SIMULATION OF HIGH CURRENT ION BEAM WITH ADDITIONAL ELECTRON BEAMS INJECTION IN THE DRIFT AND THE ACCELERATING GAP OF LIA V.I. Karas', E.A. Kornilov, O.V. Manuilenko, V.P. Tarakanov, O.V. Fedorovskaya
28.	6-13	FIELD EMISSION NEEDLE-LIKE CATHODE HEATING O.V. Manuilenko, V.I.Karas
29.	6-14	SURFACE ELECTROMAGNETIC WAVES ON BOUNDARY BETWEEN LOSSY DIELECTRIC AND LEFT-HANDED MATERIAL WITH GAIN V.K. Galaydych, N.A. Azarenkov, V.P. Olefir, A.E. Sporov
30.	6-15	DIAGNOSTIC MODULE OF THE RADIATION-BEAM COMPLEX "TEMP" A.B. Batrakov, E.G. Glushko, A.A. Zinchenko, Yu.F. Lonin, A.G. Ponomarev, S.I. Fedotov
31.	7-34	EFFECT OF SUBSTRATE BIAS VOLTAGE PARAMETERS ON SURFACE PROPERTIES OF TA-C COATINGS V. Safonov, K. Miroshnichenko, A. Zykova, J.Walkowicz, V. Zavaleyev, R. Rogowska
32.	7-35	OZONATORS BASED IN THE DIELECTRIC BARRIER DISCHARGE V.S. Taran, V.V. Krasnyj, A.S. Lozina, A.V. Klosovskyj, A.V. Shchebetun

Tuesday 13 September

Poster Abstract №	Abstract №	Title
33.	7-36	SEPARATION OF NEGATIVE HYDROGEN IONS FROM PENNING DISCHARGE WITH METALHYDRIDE CATHODE I.N. Sereda, A.F. Tseluyko, D.L. Ryabchikov, I.V. Babenko, Ya.O. Hrechko, V.A. Hetman
34.	7-37	LONGITUDINAL EXTRACTION OF H⁻ IONS FROM PENNING DISCHARGE WITH METALHYDRIDE CATHODE I.N. Sereda, A.F. Tseluyko, D.L. Ryabchikov, I.V. Babenko, Ya.O. Hrechko, V.A. Hetman
35.	7-38	MAGNETIC FIELD INFLUENCE ON THE PARAMETERS OF THE TWO-STAGE DISCHARGE GAS-METAL PLASMA SOURCE S.V. Shariy, V.B. Yuferov, M.O. Shvets, V.I. Tkachov, V.V. Katrechko
36.	7-39	THE FORMING SYSTEM SIMULATION FOR REACTIVE GAS ION SOURCE WITH DECREASED NEUTRAL GAS IN LEAKAGE P.A. Martynenko
37.	7-41	STRUCTURE AND PROPERTIES OF THE (Cr, Al)_N COATINGS DEPOSITED BY PIII&D METHOD V. Vasylyev, A. Luchaninov, E. Reshetnyak, V. Strel'nitskij, B. Lorentz, S. Reichert, V. Zavaleyev, J. Walkowicz
38.	7-42	SYNTHESIS OF THIN-FILM Ta₂O₅ COATINGS BY REACTIVE MAGNETRON SPUTTERING S. Yakovin, A. Zykov, S. Dudin, N. Yefymenko
39.	7-43	PLASMA ASSISTED DEPOSITION OF TaB₂ COATINGS BY MAGNETRON SPUTTERING SYSTEM S. Yakovin, A. Zykov, S. Dudin, V. Farenik, A. Gocharov, I. Shelest, V. Kuznetsov
40.	7-44	CATHODE DIRECTED STREAMER DUMPING NEAR AND FAR FROM CATHODE O. Bolotov, B. Kadolin, S. Mankovskyi, V. Ostroushko, I. Pashchenko, G. Taran, L. Zavada
41.	7-45	ON THE EQUATION OF STATE AND PROPERTIES OF THE PLASMA IN UNDERWATER DISCHARGES P. V. Porytskyy and P.D. Starchyk
42.	7-48	PECULIARITIES OF PROPERTIES OF THE PULSE PLASMA JET Yu.S. Podzirey, P.V. Porytskyy
43.	7-46	CAVITY WITH DISTRIBUTED DIELECTRIC COATING FOR SUBTERAHERTZ SECOND-HARMONIC GYROTRON V.I. Shcherbinin, G.I. Zaginaylov, and V.I. Tkachenko
44.	7-47	THE SIZE EFFECT AND X-RAY FLUORESCENC SPECTRA OF METALLIC NANOPARTICLES Yu.E. Kolyada, A.A. Bizyukov, N.A. Savinkov
45.	7-52	VAPORIZATION OF METALLIC MACROPARTICLES IN THE HIGH TEMPERATURE TECHNOLOGY PLASMA A.A. Bizyukov, A.D. Chibisov, E.V. Romashchenko, Yu.E. Kolyada
46.	7-53	DECAY OF LIQUID METALLIC MACROPARTICLES IN PLASMA-BEAM SYSTEMS DUE TO RAYLEIGH INSTABILITY A.A. Bizyukov, A.D. Chibisov, E.V. Romashchenko, Yu.E. Kolyada
47.	7-55	INTRINSIC STRESSES IN MULTICOMPONENT NITRIDE COATINGS PRODUCED BY PLASMA IMMERSION ION IMPLANTATION A.I. Kalinichenko, S.S. Perepelkin, V.E. Strel'nitskij
48.	7-16	EFFECT OF COLD PLASMA ON THE CHARACTERISTICS OF DPPC LIPOSOMES Heba M. Fahmy, Asmaa A. Hassan, Ghada F. Abdelfatah, Salma Y. Mohamed, Mohamed H. Gaber

15.50-16.10 Coffee break

Tuesday 13 September

16.00-18.00 SESSION VI (CONFERENCE HALL)

Chaired by I. Girka and V. Zasenko

- 16.00 I-14 **MASS SPECTROSCOPY OF PLASMA FOR FUNCTIONALIZATION OF CARBON NANOSTRUCTURES** Ilija Stefanović, Vladimir Stojanović, Eva Kovačević, Johannes Berndt, Cedryc Pattyn, Ana Dias and Shahzad Hussain
- 16:40 7-02 **EFFECT OF DUST PARTICLES ON ELECTRON ENERGY DISTRIBUTION IN GLOW AND AFTERGLOW PLASMAS** I. B. Denysenko, N. A. Azarenkov, S. Ivko, G. Burmaka, A. Glazkov
- 17:00 .7-06 **MACROPARTICLES IN BEAM-PLASMA SYSTEMS** A.A. Bizyukov, I.O. Girka, E.V. Romashchenko, O.D. Chibisov
- 17:20 4-02. **ANALYTICAL DESCRIPTION OF THE ELECTROSTATIC POTENTIAL OF DUST GRAIN IN WEAKLY IONIZED PLASMA** A.I. Momot, A.G. Zagorodny
- 17:40 4-03 **DIRECT PARALLEL POISSON SOLVER WITH THE MULTIPLY GRID SPACING SUPPORT FOR PLASMA SIMULATION VIA PIC METHOD**
D.I. Dadyka, I.O. Anisimov

18:00-19:00 Excursion to Archeology Museum

Wednesday 14 September

9:15-11:15 SESSION VII (CONFERENCE HALL)

Chaired by O. Ågren and V. Sizyuk

- 9.15 I-12 COMMENTS ON RECENT STUDIES OF HIGH-TEMPERATURE PLASMAS AT THE NCBJ IN POLAND M.J. Sadowski and J. Żebrowski
- 9.55 I-19 PLASMA GASIFICATION: BASIC THERMODYNAMIC AND KINETIC RELATIONS V.A. Zhovtyansky
- 10.35 I-05 RECENT DEVELOPMENT OF NEW GENERATION PLASMADYNAMICAL FILTER FOR MICRODROPLETS ELIMINATIONS A.A. Goncharov, A.N. Dobrovolsky, I.V. Litovko, I.V. Naiko, L.V. Naiko, I.M. Protsenko

11.15-11.40 Coffee break

11.40- 13.00 SESSION VIII (CONFERENCE HALL)

Chaired by V. Zhovtyansky and R. Sydora

- 11.40 I-20 ON THE SYNTHESIS AND PROCESSING OF NANOPARTICLES BY PLASMAS A.M. Ahadi
- 12.20 I-13 INVESTIGATION OF X-RAY EMISSION FROM HIGH-CURRENT DISCHARGES OF THE PF TYPE E. Skladnik-Sadowska, M.J. Sadowski, K. Malinowski, W. Surala, D. Zaloga, M. Paduch, E. Zielinska and K. Tomaszewski
- 12.40 8-01 SPECTROSCOPY AND PROBE DIAGNOSTICS OF DC SPHERICAL GLOW DISCHARGE V.A. Zhovtyansky, V.G. Nazarenko, R.P. Syrotyuk

13.00-14.30 Lunch

14.30-16.00 POSTER SESSION III (Conference hall) - 48 posters

- Topics:
- 1 - Magnetic confinement (reports 1-21 – 1-27)
 - 2 - Plasma Heating and Current Drive (reports 2-05 – 2-07)
 - 3 - ITER and Fusion Reactor Aspects (reports 3-09 – 3-13)
 - 4 - Basic Plasma Physics (reports 4-16 – 4-17)
 - 5 - Plasma Dynamics and Plasma–Wall Interaction (reports 5-06; 5-09 – 5-12)
 - 7 - Low Temperature Plasma and Plasma Technologies (reports 7-10; 7-12; 7-13; 7-18; 7-22; 7-23; 7-40; 7-49 – 7-51; 7-54; 7-56 – 7-63 – 7-67)
 - 8 - Plasma Diagnostics (reports 8-07 – 8-10)

Poster Abstract

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Title

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| 1. | 1-21 | CONCERNING PHOTODIODES SPECTRAL SENSITIVITY INFLUENCE ON THE TWO FOILS SOFT X-RAY TECHNIQUE IN THE URAGAN TORSATRONs. O.V. Turianska, M.B. Dreval |
| 2. | 1-22 | FINDIF CODE TEMPERATURE DISTRIBUTION SOLUTIONS FOR LIMITER WENDELSTEIN 7-X CONFIGURATION Grzegorz Pełka, Włodzimierz Stepniewski, Roman Zagórski |

Wednesday 14 September

Poster Abstract №	Abstract №	Title
3.	1-23	THE INVESTIGATION OF A WAKE POTENTIAL OF NON-RELATIVISTIC PROTONS IN THE CASE OF THEIR ORIENTATION MOTION IN SOLID-STATE PLASMA OF IONIC CRYSTALS M.V. Maksyuta, V.I. Vysotskii, Ye.V. Martysh
4.	1-24	THE USAGE OF MAXWELL FRACTIONAL EQUATIONS FOR THE INVESTIGATION OF THE WAVEGUIDE PROCESSES M.V. Maksyuta, Yu.A. Slinchenko, V.I. Grygoruk
5.	1-25	CALCULATION OF THE MAGNETIC SURFACES OF THE URAGAN-2M TORSATRON WITH ZERO CURRENT IN A SINGLE TOROIDAL MAGNETIC FIELD COIL V.V. Nemov, V.N. Kalyuzhnyj, G.G. Lesnyakov, M.M. Kozulya
6.	1-26	MODELING OF THE NEOCLASSICAL TOROIDAL VISCOUS TORQUE IN TOKAMAK PLASMAS A.F. Martitsch, G. Kapper, S.V. Kasilov, W. Kambichler, C.G. Albert, M.F. Heyn
7.	1-27	TWO DIMENSIONAL CODE FOR MODELLING OF HIGH IONE CYCLOTRON HARMONIC FAST WAVE HEATING AND CURRENT DRIVE D. Grekov, S. Kasilov, W. Kernbichler
8.	2-05	LOWER HYBRID RESONANCE: FIELD STRUCTURE AND NUMERICAL MODELING V.E. Moiseenko, T. Wauters and A. Lyssoivan
9.	2-06	RADIO-FREQUENCY WALL CONDITIONING FOR STEADY-STATE STELLARATORS Yu.S. Kulyk, V.E. Moiseenko, T. Wauters, A.I. Lyssoivan
10.	2-07	CYCLOTRON WAVE ABSORPTION IN D-SHAPED TOKAMAKS N.I. Grishanov, N.A. Azarenkov
11.	3-09	USAGE OF THORIUM FUELS IN FUSION-FISSION HYBRIDS AND CRITICAL FAST REACTORS S.V. Chernitskiy, V. E. Moiseenko, O. Ågren
12.	3-10	SURFACE MODIFICATION AND DROPLET FORMATION OF TUNGSTEN COATINGS EXPOSED TO ELM-LIKE TRANSIENT LOADS N. Aksenov, O. Byrka, I. Garkusha, S. Herashchenko V. Makhraj, V. Taran, A. Temoshenko
13.	3-11	STRUCTURE EVOLUTION OF TUNGSTEN COATINGS EXPOSED TO PLASMA FLOW UNDER ITER ELM RELEVANT CONDITIONS S.V. Malykhin, S.V. Surovitskiy, V.A. Makhraj, N.N. Aksenov, O.V. Byrka, S.S. Borisova, S.S. Herashchenko, V.V. Reshetnyak and I.E. Garkusha
14.	3-12	EROSION FEATURES OF TUNGSTEN SURFACES UNDER COMBINED STEADY-STATE AND TRANSIENT PLASMA LOADS S. Herashchenko, N. Aksenov, I. Bizyukov, O. Girka, V. Makhraj, S. Malykhin, S. Surovitskiy, A. Bizyukov and I. Garkusha
15.	3-13	RELATIVISTIC NEOCLASSICAL TRANSPORT COEFFICIENTS WITH MOMENTUM CORRECTION I. Marushchenko, N.A. Azarenkov
16.	4-16	OPTIMAL STARTING CONTROL FOR THE MULTI-TERM TIME-FRACTIONAL DIFFUSION EQUATION R.A. Veklych
17.	4-17	PARTICLE DISTRIBUTION FUNCTION OF PLASMA IN AXIAL MAGNETIC AND RADIAL ELECTRIC FIELDS FOR THE TRANSVERSE INJECTION OF NEUTRAL GAS D.V. Chibisov
18.	5-06	ELECTRON BEAM FORMATION AND ITS EFFECT IN NOVEL PLASMA-OPTICAL DEVICE FOR EVAPORATION OF MICRO-DROPLETS IN CATHODE ARC PLASMA COATING A.A. Goncharov, V.I. Maslov, L.V. Naiko

Wednesday 14 September

Poster Abstract

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19. 5-09 **INFLUENCE OF KIND OF WORKING GAS ON PLASMA STREAM PARAMETERS, GENERATED BY MAGNETOPLASMA COMPRESSOR MPC** T.M. Cherednychenko, I.E. Garkusha, D.G. Solyakov, V.A. Makhraj, V.V. Chebotarev, Yu.V.Petrov, M.S. Ladygina, A.K. Marchenko, D.V. Yelisyeyev, S.A. Trubchaninov
20. 5-10 **MAIN DESIGN FEATURES OF THE QUASI-STATIONARY PLASMA PLASMA ACCELERATOR QSPA-M** V.V. Chebotarev, I.E. Garkusha, N.V. Kulik, V.V. Staltsov, D.G. Solyakov, V.A. Makhraj, Yu.V.Petrov, D.V. Yelisyeyev
21. 5-11 **DIAGNOSTICS OF PLASMA STREAMS AND PLASMA-SURFACE INTERACTION OF ESSENTIALLY DIFFERENT DURATION OF PLASMA PULSES** A.K. Marchenko, M.S. Ladygina, Y.V. Petrov, V.A. Makhraj, I.E. Garkusha, D.G. Solyakov, O.V. Byrka, V.V. Chebotarev, N.N. Aksenov, S.S. Herashchenko
22. 5-12 **SURFACE TOPOGRAPHY AND DEUTERIUM RETENTION IN FERRITIC STEEL AND α -Fe EXPOSED TO LOW-ENERGY HIGH-FLUX DEUTERIUM PLASMA** A.V. Nikitin, G.D. Tolstolutskaya, V.V. Ruzhytskiy, I.E. Kopanets, S.A. Karpov, R.L. Vasilenko
23. 7-40 **OBTAINING SILICON CARBIDE VIA CHEMICAL VAPOR, PLASMA-CHEMICAL AND SUBLIMATION METHODS** A.Yu. Ghuravlyov, N.A. Hovanskiy, D.A. Khizhnyak, B.M. Shirokov, N.A. Semenov, A.V. Shijan, S.V. Strigunovskiy, A.I. Yeysiukov
24. 7-51 **DEVELOPMENT OF NEGATIVE HYDROGEN ION SOURCE WITH COMBINED DISCHARGE** A. Dobrovolsky, V. Goretskii, V. Bazhenov
25. 7-54 **NUMERICAL SIMULATION OF NANOPARTICLES COAGULATION IN RF-DISCHARGE** O. Yu. Kravchenko, Yu. Yushchyshena
26. 7-56 **DYNAMICS OF DUST PARTICLES IN A PLASMA JET** O.Yu. Kravchenko, I.S. Maruschak
27. 7-57 **INVESTIGATION OF ELECTRIC ARC DISCHARGE PLASMA BETWEEN ONE-COMPONENT Cu&Ni AND COMPOSITE Ag-Ni ELECTRODES** A.N. Veklich, M.M. Kleshich, S.O. Fesenko, V.F. Boretskij, Y. Cressault, Teulet Ph
28. 7-18 **INVESTIGATIONS OF THERMAL PLASMA OF ELECTRIC ARC DISCHARGE BETWEEN COMPOSITE Ag-C ELECTRODES** A.N. Veklich, S.O. Fesenko, V.F. Boretskij, Y. Cressault, Teulet Ph
29. 7-23 **SPECTROSCOPY OF ELECTRIC ARC DISCHARGE PLASMA WITH ADMIXTURES OF W, MO AND CR** A.V. Lebid, A.N. Veklich, T.A. Tmenova
30. 7-58 **SUPPRESSION OF MICRODROPLETS FRACTION IN PLASMA FLOW OF ARC PLASMA SOURCE** M.E. Drobkov, A.A. Goncharov, V.F. Semeniuk
31. 7-59 **THE PAIR INTERACTION FORCES AND THE DIFFUSION COEFFICIENTS OF PARTICLES IN MOMENTUM SPACE** V.V. Ognivenko
32. 7-60 **PLASMA EXPANSION INTO GAS** N.A. Azarenkov, A.V. Gapon
33. 7-61 **EVOLUTION OF MICROPLASMA BARRIER PULSE DISCHARGE INSIDE THE DIELECTRIC CELL** O.I. Kelnyk, O.V. Samchuk
34. 7-62 **PLASMA-CATALYTIC REFORMING OF ETHANOL: INFLUENCE OF AIR ACTIVATION RATE AND REFORMING TEMPERATURE** I.I. Fedirchuk, O.A. Nedybaliuk, V.Ya. Chernyak, V.P. Demchina
35. 7-63 **AMPLITUDE OF VORTICAL TURBULENCE IN CROSSED FIELDS IN SEPARATOR OF SPENT NUCLEAR FUEL AT OPTIMUM PARAMETERS** I.P.Levchuk, V.I. Maslov, I.N. Onishchenko, A.M. Yegorov, V.B. Yuferov

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| 36. | 7-65 | APPLICATION OF CONDUCTIVE, DIELECTRIC AND PROTECTIVE COATINGS ON INSULATORS WITH USING ARC DISCHARGE AND HF BIAS SOURCES A.V. Leonovych, R.M. Muratov, Y.N. Nezovibat'ko, M.A. Sergiets, V.S. Taran |
| 37. | 7-66 | KINETICS OF PYROLYSIS OF ETHANOL-AIR MIXTURE O.M. Tsymbaliuk, V.Ya. Chernyak, T.S. Donchenko, A.O. Fayzulin |
| 38. | 7-67 | REFRACTION OF MICROWAVES IN AN INHOMOGENEOUS ROTATING PLASMA Yu.V. Kovtun, E. V. Syus'ko, E.I. Skibenko, A.I. Skibenko |
| 39. | 7-10 | INFLUENCE OF NEGATIVE IONS ON ATOMIC OXYGEN PRODUCTION IN A HOLOW CATHODE DISCHARGE IN O₂/Ar MIXTURE Yu. Lavrukevich, A. Ryabtsev, V. Tsiolko |
| 40. | 7-12 | SPATIAL DISTRIBUTION OF CONTINUUM RADIATION FROM PLASMA OF PLANAR CAPACITIVE RF DISCHARGE IN ARGON AT 1 ATM PRESSURE: PHOTOMETRIC STUDY V. Yu. Bazhenov, S.M. Gubarev, V.V. Tsiolko, R.Yu. Chaplinskiy |
| 41. | 7-13 | EFFECT OF ARGON CONTENT IN AR : O₂ MIXTURES ON O⁻, O₂⁻ CONCENTRATIONS IN NEGATIVE GLOW PLASMA OF LOW PRESSURE DISCHARGE V.Yu.Bazhenov, Yu.V.Lavrookevich, V.M.Piun, A.V.Ryabtsev, V.V.Tsiolko |
| 42. | 7-22 | HIGH-VOLTAGE GAS-DISCHARGE CURRENT LIMITER-INTERRUPTER USING HIGH-DENSITY GLOW DISCHARGE I. Drozd, A. Kuzmichev |
| 43. | 7-64 | DEPENDENCE OF THE NONEQUILIBRIUM RADIATION OF A PULSED DISCHARGE IN WATER IN THE VISIBLE RANGE FROM THE ELECTRIC FIELD O.A. Fedorovich |
| 44. | 8-10 | THE QUALITATIVE ANALYSIS OF THE COMPOSITION OF THE PLASMA RF DISCHARGE BY MEANS OF MASS – SPECTROMETRY V.V. Hladkovskiy, B.P. Polozov, O.A. Fedorovich |
| 45. | 8-07 | INFLUENCE OF THE FRAME-TYPE ANTENNA ON THE RF-DISCHARGE PERIPHERAL PLASMA PARAMETERS IN TORSATRON URAGAN-3M Ya.F. Leleko |
| 46. | 8-08 | BEHAVIOR OF SUPRATHERMAL ELECTRONS AT THE URAGAN-3M TORSATRON AFTER RF HEATING OFF N.V. Zamanov, R.O. Pavlichenko, A.E. Kulaga |
| 47. | 8-09 | FIRST MEASUREMENTS OF LINE ELECTRON DENSITY IN URAGAN-2M PLASMAS VIA 140 GHZ HETERODYNE INTERFEROMETER R.O. Pavlichenko, N.V. Zamanov and A.E. Kulaga |
| 48. | 7-49 | INVESTIGATIONS ON THE EFFECT OF DIFFERENT CARBON SPECIES ON THE GROWTH AND FIELD EMISSION PROPERTIES OF PLASMA GROWN GRAPHENE SHEET Neha Gupta, Suresh C. Sharma, Ravi Gupta, and Rinku Sharma |
| 49. | 7-50 | THEORETICAL INVESTIGATION OF THE IMPACT OF VARIOUS PLASMAS ON THE CATALYST NANOPARTICLE SIZE FABRICATED FROM CATALYST THIN FILM Ravi Gupta, Surech C. Sharma, Neha Gupta, and Rinku Sharma |

15.40-16.00 Coffee break

Wednesday 14 September

16.00-18.00 SESSION IX (CONFERENCE HALL)

Chaired by V. Voitsenya and A. Goncharov

- 16:00 **I-10 PLASMA CHEMISTRY FOR CONCEPT OF SUSTAINABLE DEVELOPMENT**
O.A. Nedybaliuk, V.Ya. Chernyak, V.V. Iukhymenko, Iu.P. Veremii,
I.V. Prysiashnevych, Ol.V. Solomenko, O.N. Tsymbaliuk
- 16:40 **7-01 OPTICAL EMISSION SPECTROSCOPY OF PLASMA OF UNDERWATER
ELECTRIC SPARK DISCHARGES BETWEEN METAL GRANULES**
T. Tmenova, A. Veklich, V. Boretskij, Y. Cressault, F. Valensi, K. Lopatko,
Y Aftandilyants
- 17:00 **8-02 HEAVY ION BEAM PROBING—A TOOL TO STUDY GAM, ALFVÉN
EIGENMODES AND BROADBAND TURBULENCE IN THE T-10 TOKAMAK
AND TJ-II STELLARATOR** A.V. Melnikov, L.I. Krupnik, J.M. Barcala, A.A. Chmyga,
G. N. Deshko, M.A. Drabinskij, L.G. Eliseev, C. Hidalgo, P.O. Khabanov, N.K. Kharchev,
A.D. Komarov, A.S. Kozachek, S.M. Khrebtov, J. Lopez, S.E. Lysenko, A. Molinero,
J.L. de Pablos, V.N. Zenin, and A.I. Zhezhera
- 17:20 **8-03 NEW CAPABILITIES OF PLASMA POTENTIAL AND DENSITY
MEASUREMENTS USING A DUAL HEAVY ION BEAM PROBING (HIBP)
DIAGNOSTIC IN THE TJ-II STELLARATOR** A.I. Zhezhera, A. Chmyga,
G.N. Deshko, L.G. Eliseev, C. Hidalgo, S.M. Khrebtov, A.D. Komarov, A.S. Kozachek,
L.I. Krupnik A.V. Melnikov, J.L. de Pablos, S.V. Perfilov, and TJ-II team
- 17:40 **7-04 PROPAGATION OF ION PLASMA FLOW OF CATHODIC ARC DISCHARGE
IN HOLLOW CATHODE (STUDY AND THE FIRST RESULTS)**
V. Yu. Bazhenov, A.M. Dobrovol'skii, A.O. Goncharov, V.O. Khomich, I.V. Naiko,
V. M. Piun, I.M. Protsenko, V.V. Tsiolko
- 18:00 **7-03 PROPERTIES OF SECONDARY DISCHARGE IN PLASMA-LIQUID SYSTEM
BASED ON ROTATING GLIDING DISCHARGE** D.K. Hamazin,
V.V. Iukhymenko, V.Y Chernyak, Ol.V. Solomenko

19:00-22:30 Conference Dinner

Thursday 15 September
Arrival to NSC KIPT

9.15- 11.15 SESSION X (Conference hall KIPT)

Chaired by I. Nedzelskiy and F. Castejón

- 9.15 I-01 STUDIES OF STEADY STATE MIRROR BASED FUSION NEUTRON SOURCES CONCEPTS** O. Ågren, V.E. Moiseenko, K. Noack, S.V. Chernitskiy
- 9.55 I-04 FORMATION OF AMMONIA DURING N₂-SEEDED DISCHARGES IN TOKAMAKS WITH METALLIC PLASMA-FACING SURFACES** A. Drenik, D. Alegre, M. Bišćan, S. Brezinsek, A. de Castro, T. Dittmar, A. Hakola, , K. Krieger, U. Kruezi, G. Meisl, M. Mozetic, M. Oberkofler, M. Panjan, G. Primc, V. Rohde, R. Zaplotnik, the ASDEX Upgrade team and JET contributors
- 10.35 I-02 ICRF HEATING IN ASDEX UPGRADE WITH W WALL** V. Bobkov, ASDEX Upgrade team, The EURO fusion MST1 team et all

11.15-11.40 Coffee break

11.40- 14.00 SESSION XI (Conference hall KIPT)

Chaired by I. Garkusha and I. Onishchenko

- 11.40 I-11 RECENT DEVELOPMENTS IN THE ISTTOK HEAVY ION BEAM DIAGNOSTIC** I.S. Nedzelskiy, A. Malaquias, R.B. Henriques, R. Sharma
- 12.20 1-01 STELLARATOR THEORY STUDIED AND OPTIMIZATION UNDER EUROFUSION** F. Castejón and WPS2 EURO fusion
- 12.40 5-01 NOVEL STEP OF HIGH POWER QUASI-STATIONARY PLASMA STREAMS GENERATION: QSPA-M DEVICE.** V.V. Chebotarev, I.E. Garkusha, N.V. Kulik, V.V. Staltsov, D.G. Solyakov, V.A. Makhraj, Yu.V. Petrov, D.V. Yelisyeyev

13:00 Closing

13.30-16.00 Lab Tour

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