

Monday 13th September

9.10-11.15 SESSION I (Hall A)

Chaired by I. Neklyudov and A. Zagorodny

9.10

Opening Ceremony

9.30 I-01 **RECENT RESULTS FROM KHARKOV STELLARATORS**

V. Voitsenya

10.05 I-05 **EXPERIMENTS ON NEOCLASSICAL RIPPLE TRANSPORT AT POLOIDALLY OR/AND TEMPORALY PERTURBED SEPARATIRIX IN ELECTRON PLASMA**

A.A. Kabantsev and C.F. Driscoll

10.40 I-08 **KINETIC MODELING OF H-MODE PEDESTAL WITH EFFECTS FROM ANOMALOUS TRANSPORT AND MHD STABILITY**

A.Y. Pankin, G.Y. Park, G. Bateman, C.S. Chang, R.J. Groebner, J.W. Hughes, A.H. Kritz, S. Ku, T. Rafiq, P.B. Snyder, J. Terry

11.15-11.40 Coffee Break

11.50- 13.55 SESSION II (Hall A)

Chaired by N. Azarenkov and V. Voitsenya

11.40 I-11 **SIMULATION OF ITER ICWC SCENARIOS IN JET**

A. Lysoivan, D. Douai, V. Philipps, S. Brezinsek, R. Koch, E. Lerche, M.-L. Mayoral, J. Ongena, R.A. Pitts, F.C. Schüller, G. Sergienko, D. Van Eester, T. Wauters, T. Blackman, V. Bobkov, E. de la Cal, F. Durodié, E. Gauthier, T. Gerbaud, M. Graham, S. Jachmich, E. Joffrin, A. Kreter, V. Kyrtsya, P.U. Lamalle, P. Lomas, F. Louche, M. Maslov, V.E. Moiseenko, I. Monakhov, J.-M. Noterdaeme, M.K. Paul, V. Plyusnin, M. Shimada, M. Tsalas, M. Van Schoor, V.L. Vdovin and JET EFDA Contributors

12.15 1-3 **LONG-DISTANCE CORRELATIONS OF FLUCTUATIONS IN TCABR TOKAMAK**

Yu.K. Kuznetsov, I.C. Nascimento, R.M.O Galvão, C. Silva, H. Figueiredo, J.H.F. Severo and participants of TCABR Joint Experiment

12.35 1-5 **STUDY OF COLLISIONLESS HIGH ENERGY PARTICLE LOSSES FOR URAGAN-2M TAKING INTO ACCOUNT THE INFLUENCE OF CURRENT-FEEDS AND DETACHABLE JOINTS OF THE HELICAL WINDING**

V.V. Nemov, S.V. Kasilov, W. Kernbichler, V.N. Kalyuzhnyj, B. Seiwald

12.55 2-2 **RF HEATING BELOW ION-CYCLOTRON FREQUENCIES IN URAGAN TORSATRONS**

V.E. Moiseenko, M.B. Dreval, P.Ya. Burchenko, A.V. Losin, V.L. Berezhnyj, V.N. Bondarenko, V.V. Chechkin, L.I. Grigor'eva, D. Hartmann, R. Koch, V.G. Konovalov, V.D. Kotsubanov, Ye.D. Kramskoi, A.E. Kulaga, A.I. Lysoivan, V.K. Mironov, R.O. Pavlichenko, V.S. Romanov, A.N. Shapoval, A.I. Skibenko, A.S. Slavnyi, V.I. Tereshin, V.S. Voitsenya

13.15 2-3 **ICRF HEATING OF HYDROGEN PLASMAS WITH TWO MODE CONVERSION LAYERS**

Ye.O. Kazakov, D. Van Eester, E. Lerche, I.V. Pavlenko, I.O. Girka, B. Weyssow and JET EFDA Contributors

13.35 1-1 **PLASMA DENSITY BEHAVIOR DURING RF HEATING IN THE URAGAN-3M TORSATRON (review)**

V.V. Chechkin, L.I. Grigor'eva, I.M. Pankratov, A.A. Beletskii, Ye.L. Sorokovoy

Monday 13th September

14.00-15.00 Lunch

16.45-17.00 Coffee break

17.00-19.00 SESSION III (Hall A)

Chaired by K. Nakajima and I. Onishchenko

- 17.00 7-3 **EVOLUTION OF THE MODULATED ELECTRON BEAM IN THE DENSE PLASMA BARRIER**
I.O. Anisimov, M.J. Soloviova
- 17.20 7-2 **COMPUTER SIMULATION RESULTS IN THE STUDY OF THE PLASMA RELATIVISTIC MICROWAVE AMPLIFIER**
I.L. Bogdankevich, I.E. Ivanov, P.S. Strelkov, V.P. Tarakanov
- 17.40 7-7 **WAKEFIELDS EXCITATION IN PLASMA, FORMED BY A SEQUENCE OF ELECTRON BUNCHES IN NEUTRAL GAS, ACCELERATING AND FOCUSING ELECTRONS BY THEM**
V.A. Kiselev, A.F. Linnik, I.N. Onishchenko, V.I. Pristupa
- 18.00 7-1 **ABOUT THREE MECHANISMS OF TRANSFORMATION OF LOW-FREQUENCY ENERGY OF OSCILATIONS TO THE ENERGY OF HIGH-FREQUENCY OSCILATIONS**
V.A. Buts, A.M. Yegorov
- 18.20 7-4 **THE LOW PRESSURE DISCHARGE INDUCED BY MICROWAVE RADIATION WITH STOCHASTICALLY JUMPING PHASE**
V.I. Karas`, A.F. Alisov, A.M. Artamoshkin, V.I. Golota, A.M. Yegorov, I.V. Karas`, I.F. Potapenko, A.N. Starostin, A.G. Zagorodny, I.A. Zagrebelny, V.I. Zasenkov
- 18.40 PD-3 **WAKEFIELD EXCITATION BY A TRAIN OF ELECTRON BUNCHES IN A RESONATOR WITH ANNULAR ISOTROPIC PLASMA**
P.I. Markov, I.N. Onishchenko, G.V. Sotnikov

19.30-22.30 WELCOME PARTY

Tuesday 14th September

9.30-11.15 SESSION VI (Hall A)

Chaired by K. Yushchenko and A. Yegorov

- 9.30 I-04 **EVOLUTION OF MIRRORS IN NOVOSIBIRSK: PAST, PRESENT AND FUTURE**
E.P. Kruglyakov, A.V. Burdakov, A.A. Ivanov
- 10.05 I-15 **RECENT PROGRESS ON LASER PLASMA ACCELERATORS AND APPLICATIONS FOR COMPACT HIGH-QUALITY PARTICLE BEAM AND RADIATION SOURCES**
Kazuhisa Nakajima
- 10.40 I-16 **LONG SEQUENCE OF RELATIVISTIC ELECTRON BUNCHES AS A DRIVER IN WAKEFIELD METHOD OF CHARGED PARTICLES ACCELERATION IN PLASMA**
K.V. Lotov, V.I. Maslov, I.N. Onishchenko

11.15-11.40 Coffee break

11.40-13.55 SESSION V and ADJOINT WORKSHOP (Hall A)

Chaired by I. Anisimov and J. Linke

- 11.40 I-17 **HIGHLIGHTS OF DENSE MAGNETIZED PLASMA RESEARCH IN POLAND**
M.J. Sadowski and M. Scholz
- 12.15 8-5 **ENERGY CHARACTERISTICS OF GLOW DISCHARGE IN A SPHERICAL GEOMETRY**
V.A. Zhovtyansky, Yu.I. Lelyukh, Ya.V. Tkachenko, V.G. Nazarenko, O.V. Anisimova, V.O. Khomych
- 12.35 8-8 **MATERIAL SURFACE MODIFICATION UNDER THE ACTION OF COMPRESSION PLASMA FLOW LOADED WITH DOPING ELEMENTS**
V.M. Astashynski, V.V. Astashynski, N.N. Cherenda, E.A. Kostyukevich, A.M. Kuzmitski, N.T. Kvasov, A.A. Mishchuk, V.V. Uglov
- 12.55 8-1 **PLASMA ASSISTED COMBUSTION OF PARAFIN**
V.Ya. Chernyak, O.A. Nedybaliuk, S.V.Olszewski, L.A. Bulavin, Yu.F.Zabashta, O.Yu .Aktan, V.V. Lendel, S.G.Orlovska, O.S.Svechnikov, F.F.Karimova, M.S.Shkoropado
- 13.15 8-7 **PLASMA OF ELECTRIC ARC BETWEEN COMPOSITE ELECTRODES ON SILVER BASE** I.L. Babich, V.F. Boretskij, L.A. Kryachko, R.V. Minakova, A.N. Veklich
- 13.35 8-3 **PROPERTIES OF PLASMA AFTERGLOW WITH LARGE DUST DENSITY**
I. Denysenko, I. Stefanović, B. Sikimić, J. Winter and N. A. Azarenkov

14.00-15.00 Lunch

16.45-17.00 Coffee break

Tuesday 14th September

17.00-19.00

POSTER SESSION I (Hall B)- 55 posters

Chaired by Yu. Kuznetsov

- Topics:**
- 1- Magnetic confinement (reports 1-10 – 1-17)
 - 5- Space Plasma (reports 5-1 – 5-3)
 - 6 – Plasma Dynamics and Plasma–Wall Interaction (reports 6-5, 6-7 – 6-18)
 - 7 - Plasma Electronics (reports 7-5, 7-6, 7-8– 7-12)
 - 8 - Low Temperature Plasma and Plasma Technologies (reports 8-10 – 8-26),
 - 9 - Plasma Diagnostics (reports 9-5 – 9-10)

Poster №	Abstract. №	Title
1	1-10	INVESTIGATION OF ENERGY AND MASS BALANCE IN “TRIMYX-3M” GALATEA MULTIPOLE MAGNETIC TRAP <u>A.M. Bishaev</u> , A.I. Bugrova, M.V. Kozintseva, A.S. Lipatov, V.V. Savelyev, A.S. Sigov, I.A. Tarelkin, V.A. Terekhov, A.V. Desyatskov
2	1-15	CREATION OF MULTIPOLE MAGNETIC TRAP “TRIMYX-3M (MICROWAVE)” <u>A.M. Bishaev</u> , G.E. Bugrov, A.I. Bugrova, A.I. Denis`uk, M.V. Kozintseva, V.K. Kharchevnikov, D.D. Plujnik, I.A. Tarelkin, P.G. Smirnov
3	1-11	KINETIC ANALYSIS OF THE AXIALLY-SYMMETRIC MIRROR BASED SYSTEMS FOR FUSION APPLICATIONS A.Yu. Chirkov, S.V. Ryzhkov, P.A. Bagryansky, A.V. Anikeev
4	1-12	ON POSSIBILITY OF PRESSURE PERTURBATION RESONANT EXCITATION BY AN EXTERNAL LOW FREQUENCY HELICAL FIELD NEAR EDGE PLASMA <u>I.M. Pankratov</u> , A.Ya. Omelchenko
5	1-13	ON A POSSIBLE MECHANISM OF HARMONICS' GENERATION OF RF FIELD IN AN NEAR-ANTENNA REGION OF PLASMA IN URAGAN-3M <u>V.L. Berezhnij</u> , I.V. Berezhnaya, V.S. Voitsenya, I.B. Pinos, A.V. Prokopenko, I.K. Tarasov, M.I. Tarasov
6	1-14	EFFECTS OF RECTIFICATION AND RUN-AWAY ELECTRONS GENERATION IN TORSATRON U-3M DURING RF POWER PLASMA PRODUCTION <u>V.L. Berezhnij</u> , I.V. Berezhnaya, V.S. Voitsenya, I.B. Pinos, A.V. Prokopenko
7	1-16	STUDIES OF ELECTRON LOSS CONTRIBUTION TO THE ASYMMETRY OF PLASMA FLOWS IN THE HELICAL DIVERTOR OF THE URAGAN-3M TORSATRON <u>V.V. Chechkin</u> , L.I. Grigor`eva, Ye.L. Sorokovoy, A.A. Beletskii, A.S. Slavnyj, V.S. Voitsenya, Ye.D. Volkov, V.K. Pashnev, N.V. Zamanov, A.Ye. Kulaga, R.O. Pavlichenko, F.I. Ozherel`ev, P.Ya. Burchenko, A.V. Lozin, S.A. Tsybenko, Yu.K. Mironov, V.S. Romanov
8	1-17	TOROIDAL ANGULAR MOMENTUM TRANSPORT MODELLING IN TOKAMAKS Yu.N. Dnestrovskij, <u>A.V. Danilov</u> , A.Yu. Dnestrovskij, S.E. Lysenko, S.V. Cherkasov, I.A. Voitsekhovich
9	5-1	DUST ION ACOUSTIC SHOCK WAVES IN DUSTY PLASMAS WITH RESONANT ELECTRONS <u>H. Alinejad</u> , M.A. Mohammadi
10	5-2	SHEAR-FLOW-DRIVEN ION CYCLOTRON INSTABILITY OF MULTICOMPONENT MAGNETIC FIELD-ALIGNED PLASMA FLOW <u>D.V. Chibisov</u> , V.S. Mikhailenko, K.N. Stepanov
11	5-3	SPECTRUM OF PLASMA DENSITY FLUCTUATIONS IN THE QUIET SOLAR PHOTOSPHERE Yurij Kyzyurov
12	6-5	INVESTIGATION OF COLLISION AREA OF TWO GAS-DISCHARGE COMPRESSION PLASMA FLOWS DIRECTED TOWARDS EACH OTHER <u>V.M. Astashynski</u> , S.I. Ananin, E.A. Kostyukevich, A.M. Kuzmitski, A.A. Mishchuk

Tuesday 14th September

Poster №	Abstract. №	Title
13	6-7	EROSION PLASMA COUNTER-FLOWS INTERACTION DYNAMICS IN A CONFINED AREA P.P. Khramtsov, O.G. Penyazkov, <u>U.M. Hryshchanka</u>
14	6-8	EXCITATION OF AN ANNULAR HELICON PLASMA BY VARIOUS ANTENNAS K.P. Shamrai and <u>N.A. Beloshenko</u>
15	6-9	WALL CONDITIONING RF DISCHARGES IN URAGAN-2M TORSATRON <u>V.E. Moiseenko</u> , P.Ya. Burchenko, V.V. Chechkin, L.I. Grigor'eva, G.P. Glazunov, D. Hartmann, R. Koch, V.G. Kononov, V.G. Kotenko, Ye.D. Kramskoi, A.V. Losin, A.I. Lysoivan, I.N. Misiura, A.V. Prokopenko, A.N. Shapoval, V.I. Tereshin, V.S. Voitsenya
16	6-10	THE DEVELOPMENT OF THE POSITIVE SPACE CHARGE PLASMA LENS FOR MANIPULATING HIGH CURRENT BEAMS OF NEGATIVELY CHARGED PARTICLES <u>S. Dunets</u> , A. Dobrovolskiy, A. Evsyukov, A. Goncharov, V. Gushenets, I. Litovko and E. Oks
17	6-11	PHENOMENON OF THE CURRENT CRISIS IN PLASMA ACCELERATORS WITH DIFFERENT GEOMETRY OF THE IMPENETRABLE ELECTRODES A.N. Kozlov
18	6-12	RADIATION GAS DYNAMICS OF NEAR-SURFACE LASER PLUMES IN AR Victor V. Kuzenov
19	6-13	EFFECT OF AN EXPLOSIVE ELECTRON EMISSION ON MAGNETIZED SHEATH BETWEEN PLASMA AND ISOLATED WALL O.Yu. Kravchenko, <u>G.I. Levada</u> , I.S. Maruschak, T.E. Lisitchenko
20	6-14	CHARACTERISTICS OF PLASMA STREAMS AND OPTIMIZATION OF OPERATIONAL REGIMES FOR MAGNETOPLASMA COMPRESSOR A.N. Bandura, O.V. Byrka, A.A. Chuvilo, I.E. Garkusha, <u>M.S. Ladygina</u> , A.K. Marchenko, D.G. Solyakov, D.V. Yeliseyev
21	6-15	INFLUENCE OF HYDROGEN AND HELIUM PLASMA STREAMS EXPOSURES ON MODIFICATION OF TUNGSTEN STRUCTURE UNDER POWERFUL TRANSIENT LOADS V.A. Makhraj, I.E. Garkusha, I. Landman, S.V. Malykhin, A.T. Pugachev, O.V. Byrka, S.I. Lebedev, P.B. Shevchuk, V.I. Tereshin
22	8-18	INFLUENCE OF PLASMA STREAM PARAMETERS IN PULSED PLASMA GUN ON MODIFICATION PROCESSES IN EXPOSED STRUCTURAL MATERIALS <u>O.V. Byrka</u> , A.N. Bandura, V.V. Chebotarev, I.E. Garkusha, V.V. Garkusha, V.A. Makhraj, V.I. Tereshin
23	6-16	TWO-DIMENSIONAL SIMULATION OF DYNAMIC DUST CLOUDS IN THE PLASMA BOUNDARY NEAR THE WALL O.Yu. Kravchenko, <u>I.S. Maruschak</u> , G.I. Levada
24	6-17	ANALYSIS OF THE NON-THERMAL X-RAY OSCILLATIONS IN THE T-10 TOKAMAK <u>A.V. Sushkov</u> , P.V. Savrukhnin, E.A. Shestakov, V.M. Trukhnin, E.V. Popova, D.A. Kravtsov, D.V. Sarichev
25	6-18	STUDY OF THE DEPOSITED LAYERS OF PFC-MATERIALS PRODUCED BY BOMBARDMENT WITH HYDROGEN ISOTOPES IONS <u>S.E. Krivitsky</u> , S.V. Serushkin, V.I. Troynov
26	7-5	THE REGULAR AND CHAOTIC DYNAMICS AT WEAK-NONLINEAR INTERACTION OF WAVES V.A. Buts, I.K. Kovalchuk, D.V. Tarasov, <u>A.P. Tolstoluzhsky</u>
27	7-6	DIFFUSION IN VELOCITY OF CHARGED PARTICLES SCATTERING THE ELECTROMAGNETIC WAVE V.V. Ognivenko

Tuesday 14th September

Poster №	Abstract. №	Title
28	7-8	MECHANISM OF PLASMA WAKEFIELD EXCITATION BY A NONRESONANT SEQUENCE OF RELATIVISTIC ELECTRON BUNCHES WITH REPETITION FREQUENCY LESS THAN PLASMA FREQUENCY <u>V.I. Maslov</u> , K.V. Lotov, I.N. Onishchenko, M.S. Vesnovskaya, E.N. Svistun
29	7-9	ABOUT CONDITIONS OF EFFECTIVE INTERACTION OF WAVES IN NON-UNIFORM, NON-STATIONARY AND NONLINEAR MEDIUM V.A. Buts
30	7-10	TRANSITION RADIATION OF THE CHARGED PARTICLE IN THE INHOMOGENEOUS PLASMA WITH THE LONGITUDINAL MAGNETIC FIELD I.O. Anisimov, Yu.N. Borokh
31	7-11	CONTROLLED ANOMALOUS TRANSMISSION THROUGH PLASMA LAYERS <u>S. Ivko</u> , A. Smolyakov, I. Denysenko, N. Azarenkov
32	7-12	ON STUDIES OF THE NEGATIVE POINT-TO-PLANE CORONA AT HIGH PRESSURE <u>V.I. Karas'</u> , V.I. Golota
33	8-10	EXPERIMENTAL INVESTIGATION OF GAS-VAPOR DISCHARGE BETWEEN JET ELECTROLYTE CATHODE AND SOLID ANODE AT LOW PRESSURES L.N. Bagautdinova, <u>R.Sh. Basyrov</u> , Al.F. Gaisin, Az.F. Gaisin, F.M. Gaisin
34	8-11	PHOTOEMISSION DISCHARGE N.A. Bogatov
35	8-12	CHARGING PROCESSES OF METAL MACROPARTICLES IN THE LOW-TEMPERATURE PLASMA AT PRESENCE OF HIGHT-ENEGRY ELECTRON BEAM <u>A.A. Bizyukov</u> , K.N. Sereda, A.D. Chibisov
36	8-13	CONTROL OF PLANAR MAGNETRON SPUTTERING SYSTEM OPERATING MODES BY ADDITIONAL ANODE MAGNETIC FIELD A.A.Bizyukov, O.I.Girka, K.N.Sereda, V.V. Sleptsov, A.G.Chunadra
37	8-14	PHASE STATES OF MACROPARTICLES UNDER INTERACTION OF keV ION BEAM WITH DUSTY PLASMA A.A.Bizyukov, O.I.Girka, A.Ye.Kashaba, E.V. Romashchenko , K.N. Sereda
38	8-15	ION-BEAM SYSTEM FOR NANOTRIMMING OF FUNCTIONAL MICROELECTRONICS LAYERS A.A.Bizyukov, I.A. Bizyukov, O.I.Girka, K.N. Sereda, V.V.Sleptsov, M.Gutkin, S.Mishin
39	8-16	ANODE CURVATURE INFLUENCE ON CHARACTERISTICS OF NEGATIVE CORONA DISCHARGE UNDER TRICHEL PULSED MODE <u>O.V. Bolotov</u> , V.I. Golota
40	8-17	EROSION OF VACUUM-ARC TiN-COATINGS IN PLASMA OF STATIONARY MAGNETRON TYPE DISCHARGES G.P. Glazunov, A.A. Andreev, <u>M.N. Bondarenko</u> , A.L. Konotopskiy, V.A. Stolbovoy
41	8-19	SPATIAL DISTRIBUTIONS OF PLASMA PARAMETERS IN ICP REACTOR <u>A.N. Dahov</u> , S.V. Dudin, V.I. Farenik
42	8-20	OPTIMIZATION OF OZONE CONCENTRATION DURING OZONE-DYNAMICAL TYRE DISINTEGRATION V.I. Golota, O.V. Manuilenko, G.V. Taran, A.S. Pismenetskii, A.A. Zamuriev, V.A. Benitskaja, <u>Y.V. Dotsenko</u>
43	8-21	ABOUT INFLUENCE OF ENERGY OF ELECTRONS AND IONS ON SPEED OF ELECTRON- AND ION-STIMULATED PLASMACHEMICAL ETCHING OF SILICON <u>O.A. Fedorovich</u> , M.P. Kruglenko, B.P. Polozov

Tuesday 14th September

Poster №	Abstract. №	Title
44	8-22	THE EMPIRICAL FORMULA OF DEPENDENCE OF FACTOR OF DISINTEGRATION OF NONIDEAL PLASMA FROM ELECTRONS CONCENTRATION <u>O.A. Fedorovich</u> , L.M. Voitenko
45	8-23	VOLT-AMPERE CHARACTERISTIC OF MAGNETOSTIMULATED DIELECTRIC BARRIER DISCHARGE Peter Dineff and <u>Dilyana Gospodinova</u>
46	8-24	COMPARISON COLLISIONLESS MECHANISMS OF ABSORPTION OF ENERGY IN DISCHARGES SUSTAINED BY SURFACE WAVES AT LOW PRESSURES N.A. Azarenkov, Vl.V. Gushchin
47	8-25	ATMOSPHERIC PRESSURE DBD FOR TiO₂-like THIN FILM DEPOSITION ON POLYMERIC SUBSTRATES <u>Y. Klenko</u> , J. Pichal
48	8-26	DETERMINING THE ROTATIONAL VELOCITY OF GAS-METAL MULTICOMPONENT PLASMA IN A REFLEX DISCHARGE <u>Yu.V. Kovtun</u> , A.I. Skibenko, E.I. Skibenko, Yu.V. Larin, V.B. Yuferov
49	9-5	DIAGNOSTICS OF AVERAGE TEMPERATURE FIELDS AND ELECTRON CONCENTRATIONS IN A SURFACE BARRIER DISCHARGE PLASMA OVER JOUKOWSKI AIRFOIL O.G. Penyazkov, P.P. Khramtsov, M.Yu. Chernik
50	9-6	DIAGNOSTICS OF MULTICOMPONENT ELECTRIC ARC PLASMA A.I. Cheredarchuk, V.F. Boretskij, A.N. Veklich
51	9-7	X-RAY LINE SPECTROMETRY IN EXPERIMENTS WITH THE ALUMINIUM Z-PINCH S.S. Anan'ev, <u>S.A. Dan'ko</u> and Yu.G. Kalinin
52	9-8	STUDIES OF RUN-AWAY ELECTRON BEAMS AND HARD X-RAY EMISSION IN ISTTOK TOKAMAK <u>L. Jakubowski</u> , V.V. Plyusnin, K. Malinowski, M.J. Sadowski, J. Żebrowski, M. Rabiński, H. Fernandes, C. Silva, P. Duarte, M. Jakubowski
53	9-9	PECULIARITIES OF THE RADIOMETRIC MEASUREMENTS ON URAGAN-3M TORSATRON FOR RF HEATED PLASMA R. Pavlichenko, A. Kulaga, N. Zamanov, O. Pavlichenko and URAGAN-3M team
54	9-10	NEWLY COMMISSIONED MICROWAVE DIAGNOSTICS FOR URAGAN'S PLASMA EXPERIMENTS: FEASIBILITY STUDY R. Pavlichenko, A. Kulaga, N. Zamanov, O. Pavlichenko, A. Skibenko, A. Zorenko
55	PD-1	COMPARISON OF RESULTS OF COMPUTER SIMULATION OF ELECTROSTATIC PLASMA LENSES WITH EXPERIMENTAL DATA V.I. Butenko, B.I. Ivanov
56	7-20	MATHEMATICAL MODEL OF AN EXCITATION BY ELECTRON BEAM OF "WHISPERING GALLERY" MODES IN CYLINDRICAL DIELECTRIC RESONATOR K.V. Galaydych, Yu.F. Lonin, A.G. Ponomarev, Yu.V. Prokopenko, <u>G.V. Sotnikov</u>

Wednesday 15th September

9.30-11.15 SESSION VI (Hall A)

Chaired by E.Kruglyakov and Ya.Kolesnichenko

- 9.30 I-12 **GENERALIZED FOKKER-PLANCK EQUATION AND UNIFIED DESCRIPTION OF BALLISTIC AND DIFFUSIVE PROCESSES**
Anatoly Zagorodny
- 10.05 I-06 **TOKAMAK CODE TOKES MODELS AND IMPLEMENTATION**
I.S. Landman
- 10:40 I-19 **LONG-RANGE CORRELATIONS IN EDGE TURBULENCE AND ROTATION EFFECTS IN BIASING AND ALFVÉN HEATING EXPERIMENTS IN TCABR**
R.M.O Galvão, A.G. Elfimov, H. Figueiredo, Yu.K. Kuznetsov, I.C. Nascimento, L.F. Ruchko, J.H.F. Severo, C. Silva

11.15-11.40 Coffee break

11.40-13.55 SESSION VII (Hall A)

Chaired by M. Sadowski and V. Zhovtyansky

- 11.40 I-10 **MATERIAL CHARACTERIZATION AND HIGH HEAT FLUX TESTING UNDER ITER SPECIFIC OPERATING CONDITIONS**
J. Linke, Th. Löwenhoff, G. Pintsuk, M. Rödiger, A. Schmidt, C. Thomser, M. Wirtz
- 12.15 3-4 **MATERIALS SCIENCE PROBLEMS IN MANUFACTURE OF WELDED COMPONENTS OF DEMO THERMONUCLEAR REACTOR**
K.A. Yushchenko, V.S. Savchenko, V.I. Tereshin, I.E. Garkusha, V.V. Derlomenko
- 12.35 3-1 **EROSION MECHANISMS AND EROSION PRODUCTS IN TUNGSTEN TARGETS EXPOSED TO PLASMA HEAT LOADS RELEVANT TO ELMS AND MITIGATED DISRUPTIONS IN ITER**
V.M. Safronov, N.I. Arkhipov, N.S. Klimov, I.S. Landman, D.S. Petrov, V.L. Podkovyrov, I.M. Poznyak, D.A. Toporkov, A.M. Zhitlukhin
- 12.55 3-3 **HIGH HEAT FLUX PLASMA TESTING OF ITER DIVERTOR MATERIALS UNDER ELM RELEVANT CONDITIONS IN QSPA Kh-50**
V.A. Makhraj, I.E. Garkusha, N.N. Aksenov, N.V. Kulik, I. Landman, J. Linke, A.V. Medvedev, S.V. Malykhin, V.V. Chebotarev, A.T. Pugachev, V.I. Tereshin
- 13.15 3-2 **TUNGSTEN COATINGS UNDER FUSION RELEVANT HEAT LOADS**
C. Thomser, J. Linke, J. Matthews, V. Riccardo, A. Schmidt, V. Vasechko
- 13.35 6-4 **KEY PROPERTIES OF MIXED W-C-D SURFACE RELATED TO TUNGSTEN EROSION**
I. Bizyukov

14.00-15.00 Lunch

EXCURSION

- 19.30 **Reminiscences about Prof. V.I Tereshin.**
Informal meeting with slides presentations (Hall B)

Thursday 16th September

9.30-11.15 SESSION VIII (Hall A)

Chaired by O. Agren and A. Kabantsev

- 9.30 I-20 **PHYSICS AND CONSTRUCTION STATUS OF THE WENDELSTEIN 7-X STELLARATOR**
Thomas Klinger
- 10.05 I-07 **AFFINITY AND DIFFERENCE BETWEEN ENERGETIC-ION-DRIVEN INSTABILITIES IN 2D AND 3D TOROIDAL SYSTEMS**
Ya.I. Kolesnichenko, A. Könies, V.V. Lutsenko, Yu.V. Yakovenko
- 10.40 I-03 **RECYCLING AND SPUTTERING STUDIES IN HYDROGEN AND HELIUM PLASMAS UNDER LITHIATED WALLS IN TJ-II**
F. L. Tabarés, D. Tafalla, J.A. Ferreira and TJ-II team

11.15-11.40 Coffee break

11.40-13.55 SESSION IX (Hall A)

Chaired by V. Chechkin and R.Galvao

- 11.40 I-18 **MEASUREMENTS OF RADIAL ELECTRIC FIELD AND GEODESIC ACOUSTIC MODE OSCILLATIONS WITH HEAVY ION BEAM PROBE IN LARGE HELICAL DEVICE**
A. Shimizu, T. Ido, M. Nishiura, M. Yokoyama, S. Kato, H. Nakano, K. Ida, M. Yoshinuma, K. Toi, H. Takahashi, Y. Yoshimura, S. Kubo, T. Shimozuma, H. Igami and LHD Group
- 12.15 1-6 **PLASMA TURBULENCE AND LOCAL ELECTRIC FIELD INVESTIGATIONS OF THE DENSE PLASMA ON TJ-II STELLARATOR AND T-10 TOKAMAK BY HIBP DIAGNOSTIC**
L.I. Krupnik, A.V. Melnikov, C.Hidalgo, A.A.Chmyga, L.G. Eliseev, E. Ascasibar, T. Estrada, A.D. Komarov, A.S. Kozachok, M.Liniers, S.E. Lysenko, V.A. Mavrin, M.A.Ochando, J.L.de Pablos, M.A. Pedrosa, S.V. Perfilov, F. Tabares, A.I. Zhezhera
- 12.35 9-4 **THERMIONIC LITHIUM ION EMITTERS IN LI BEAM PROBE**
I.S. Nedzelskiy
- 12.55 1-2 **GYROKINETIC SIMULATION OF TOROIDAL MOMENTUM TRANSPORT IN DRIFT-WAVE PLASMA TURBULENCE**
I. Holod
- 13.15 1-8 **STUDIES OF ANOMALOUS TRANSPORT IN THE EDGE PLASMA OF THE URAGAN-3M TORSATRON**
A.A. Beletskii, L.I. Grigor'eva, V.V. Chechkin, Ye.L. Sorokovoy, Y.D. Volkov, P.YA. Burchenko, A.Y. Kulaga, S.A. Tsybenko, A.V. Lozin, A.S. Slavnyj, N.V. Zamanov, V.K. Pashnev, V.L. Berezhnyj
- 13.35 4-2 **RENORMALIZED NON-MODAL THEORY OF TURBULENCE OF PLASMA SHEAR FLOWS**
V.S. Mykhaylenko, V.V. Mykhaylenko, K.N. Stepanov, N.A. Azarenkov

14.00-15.00 Lunch

16.45-17.00 Coffee break

Thursday 16th September

17.00-19.00

POSTER SESSION II (Hall B)- 56 posters

Chaired by V.Buts

- Topics:**
- 1- Magnetic confinement (reports 1-19 – 1-28)
 - 2 - Plasma Heating and Current Drive (reports 2-5- 2-9)
 - 3 – ITER and fusion reactor aspects (reports 3-4 – 3-9)
 - 7 - Plasma Electronics (reports 7-13– 7-19)
 - 8 - Low Temperature Plasma and Plasma Technologies (reports 8-6, 8-27 – 8-45),
 - 9 - Plasma Diagnostics (reports 9-12 – 9-18)

Poster №	Abstract. №	Title
1	1-19	DESIGN OF MULTICHORD SOFT X-RAY DETECTION ARRAYS FOR THE URAGAN-2M STELLARATOR M.B. Dreval
2	1-20	URAGAN-3M ION ENERGY DISTRIBUTION MEASUREMENTS DURING FRAME ANTENNA HEATING VIA ION CYCLOTRON FREQUENCIES RANGE M.B. Dreval, A.S. Slavnyj and URAGAN-3M team
3	1-21	FIRST TESTS OF THE BIASED MOVABLE B₄C-LIMITER IN THE URAGAN-2M TORSATRON UNDER RF AND UHF WALL CONDITIONING G.P. Glazunov, D.I. Baron, M.N. Bondarenko, P.Ya. Burchenko, V.V. Chechkin, V.Ya. Chernyshenko, L.I. Grigor'eva, V.G. Konovalov, A.L. Konotopskiy, V.G. Kotenko, A.V. Lozin, S.M. Maznichenko, V.E. Moiseenko, V.K. Pashnev, N.P. Ponomarenko, S.I. Solodovchenko, E.L. Sorokovoy, A.V. Shapoval, V.I. Tereshin, V.S. Voitsenya
4	1-22	ICFR MODE CONVERSION EFFICIENCY IN A TWO-ION COMPONENT PLASMA IN TEXTOR D.L. Grekov, S.V. Kasilov and K.K.Tretjak
5	1-23	ON SINGLE-MODE EQUILIBRIUM AND SELF-ORGANIZATION OF REVERSAL FIELD PINCH A.A.Gurin
6	1-24	A MODIFIED $lm=1$ STELLARATOR MAGNETIC SYSTEM V.G. Kotenko
7	1-25	INVESTIGATION OF POSSIBILITY OF CREATION OF LEVITATING QUADRUPOLE A.M. Bishaev, A.A. Bush, I.V. Gladyshev, K.Y. Kamentsev, M.V. Kozintseva
8	1-26	EXPERIMENTAL RESEARCH OF THE MULTISLIT ELECTROMAGNETIC TRAP "JUPITER F" S.A. Vdovin, O.A. Lavrent'ev, V.A. Maslov, V.P. Oboznyj, N.A. Krutko
9	1-27	THE INFLUENCE OF FOCUSING STREAMS OF CHARGED PARTICLES ON THE PLASMA PARAMETERS OF AN ELECTROMAGNETIC TRAP "JUPITER 2M" WITH ELECTRONIC INJECTION O.A. Lavrent'ev, V.A. Maslov, V.P. Oboznyj, S.V. Germanova, N.A. Krutko
10	1-28	MODELLING OF DEGRADATION OF THE EFFICIENCY OF NBI HEATING IN NSTX DISCHARGES WITH HIGH FREQUENCY ALFVÉNIC ACTIVITY V.V. Lutsenko, Ya.I. Kolesnichenko, Yu.V. Yakovenko
11	2-5	MODELLING OF MODE CONVERSION HEATING AND CURRENT DRIVE IN ION CYCLOTRON FREQUENCY RANGE D.L. Grekov, S.V. Kasilov, V.V. Olshansky
12	2-6	MODE CONVERSION IN HYDROGEN PLASMAS WITH IMPURITIES I.V. Pavlenko, Ye.O. Kazakov, I.O. Girka, B. Weyssow

Thursday 16th September

Poster №	Abstract. №	Title
13	2-7	STUDY OF PLASMA POTENTIAL, ITS FLUCTUATIONS AND TURBULENCE ROTATION IN THE T-10 TOKAMAK A.V. Melnikov, V.A. Vershkov, S.A. Grashin, L.G. Eliseev, <u>S.E. Lysenko</u> , V.A. Mavrin, V.G. Merezhkin, S.V. Perfilov, D.A. Shelukhin, R.V. Shurygin, L.I. Krupnik, A.D. Komarov, A.S. Kozachok and A.I. Zhezhera
14	2-8	INFLUENCE OF MAGNETIC FIELD DIRECTIONS INHOMOGENEITY ON LONGITUDINAL PROPAGATION OF WAVE BEAMS IN AXISYMMETRICAL MAGNETIC TRAP <u>E.D. Gospodchikov</u> , O.B. Smolyakova, E.V. Suvorov
15	2-9	SURFACE MODES EXCITATION UNDER FAST WAVE EXCITATION IN MAGNETOACTIVE PLASMAS IN THE $\omega > \omega_{ci}$ FREQUENCY REGION A.V. Longinov
16	3-5	REDEPOSITION OF THE CARBON IN THE SOL OF THE T-10 TOKAMAK AND ITS INFLUENCE ON REFLECTIVITY OF THE IN-VESEL MIRRORS <u>S.A. Grashin</u> , I.I. Arkhipov, V.P. Budaev, A.V. Karpov, K.Yu. Vukolov
17	3-6	ITER FUSION POWER MEASUREMENT USING DIVERTOR NEUTRON FLUX MONITOR <u>Yu. Kashchuk</u> , A. Batyunin, A. Borisov, E. Aleksandrov, P. Smirnov, A. Krasilnikov, B. Lyublin, K. Senik, V. Tanchuk, L. Bertalot
18	3-7	LASER DAMAGE INVESTIGATIONS OF QUARTZ KU-1 AND SAPPHIRE OPTICAL ELEMENTS FOR DIVERTOR THOMSON SCATTERING DIAGNOSTIC OF ITER I.S. Bel'bas, <u>A.V. Gorshkov</u> , A.A. Medvedev, E.E. Mukhin, A.G. Razdobarin
19	3-8	EFFECT OF NITROGEN, OXYGEN, NEON AND ARGON ON PINCH CURRENT AND SOFT X-RAY EMISSION IN SAHAND PLASMA FOCUS <u>M.A. Mohammadi</u> , S. Sobhanian, M. Kiantaj
20	3-9	CLEANING TECHNIQUES FOR FIRST MIRRORS IN ITER I. Arkhipov, A. Gorodetsky, R. Zalavutdinov, V. Bukhovets, A. Zakharov, K. Vukolov, T. Mukhammedzyanov, Yu. Gott, A. Taranchenko and S. Zvonkov
21	3-10	NEUTRON-TEMPERATURE OSCILLATIONS IN NEUTRON MULTIPLYING SYSTEMS AND IN BLANKETS OF THERMONUCLEAR REACTORS A.A. Vodyanitskii, V.A. Rudakov
22	7-13	DESIGN OF RADIATION OF DIPOL ELECTRON-BEAMS ANTENNA Yu.F. Lonin, A.G. Ponomarev, A.V. Stolarchuk, A.Yu. Zvyagintsev, V.I. Chumakov
23	7-14	NEW MECHANISM OF INSTABILITY DEVELOPMENT OF RELATIVISTIC ELECTRON BEAM IN PLASMA, DETERMINED BY ITS ELECTRON FOCUSING/DEFOCUSING K.V. Lotov, <u>V.I. Maslov</u> , I.N. Onishchenko, M.S. Vesnovskaya
24	7-15	PLASMA ELECTRONS' FLOW FORMATION DUE TO THE MECHANISM OF LANDAU DAMPING IN THE HOMOGENEOUS BEAM-PLASMA SYSTEM <u>D.M. Tanygina</u> , S.M. Levitsky, I.O. Anisimov
25	7-16	PROCESS INVESTIGATION OF CHAOTIC DECAY IN THE RESONATOR FILLED WITH PLASMA A.N. Antonov, V.A. Buts, I.K. Kovalchuk, <u>O.F. Kovpik</u> , E.A. Kornilov, V.G. Svichensky, D.V. Tarasov

Thursday 16th September

Poster №	Abstract. №	Title
26	7-17	DISPERSION PROPERTIES OF ELECTROMAGNETIC WAVES IN CYLINDRICAL WAVEGUIDES FILLED WITH MAGNETOACTIVE PLASMA <u>V.I. Tkachenko</u> , I.V. Tkachenko, V.I. Shcherbinin
27	7-18	DYNAMICS OF THE ELECTRON BUNCHES IN HOMOGENEOUS PLASMA: 2.5D ELECTROMAGNETIC SIMULATION <u>Yu.M. Tolochkevych</u> , T.E. Litoshenko, I.O. Anisimov
28	7-19	DIAGNOSTICS OF PARAMETERS OF LOW-VACUUM GAS-DISCHARGE ELECTRON GUNS IN CONDITIONS OF PLASMA BACKGROUND <u>V.A. Tutyk</u> , D.V. Maslenikov
29	8-27	DECOMPOSITION VAPORS DICHLOROETHANE IN BARRIERLESS DISCHARGE V.I. Golota, L.M. Zavada, O.V. Kotukov, <u>D.V. Kudin</u> , S.V. Rodionov, A.S. Pismenetskii, Y.V. Dotsenko
30	8-28	ANALYSIS OF THE LTE VALIDITY IN THE PULSED HIGH PRESSURE RADIATIVE CESIUM DISCHARGE F.G. Baksht, <u>V.F. Lapshin</u>
31	8-29	OBSTRUCTED DC GLOW DISCHARGE IN LOW-PRESSURE NITROGEN <u>V. Lisovskiy</u> , E. Kravchenko, E. Skubenko, N. Kharchenko, V. Yegorenkov
32	8-30	ANODE DIAMETER EFFECT ON IGNITION AND BURNING OF DC DISCHARGE <u>V. Lisovskiy</u> , E. Skubenko, E. Kravchenko, V. Yegorenkov
33	8-31	INFLUENCE OF ARGON ADMIXTURE ON CHARACTERISTICS OF NITROGEN STRONGLY NON-UNIFORM NON-EQUILIBRIUM MICROWAVE DISCHARGE Yu.A. Lebedev, <u>T.B. Mavlyudov</u> , I.L. Epstein, A.V. Chvyreva
34	8-32	SEMI-EMPIRICAL MODELING OF MICROWAVE EFFECT ON THE ELECTRON ENERGY DISTRIBUTION FUNCTION IN POSITIVE COLUMN OF A MEDIUM PRESSURE Cs-Xe DC DISCHARGE M.S. Gitlin, Yu.A. Lebedev, <u>T.B. Mavlyudov</u> , A. I. Tsvetkov, I.L. Epstein
35	8-33	PLASMA FOCUS INSTALLATIONS FOR TECHNOLOGIES Antonova L.K., Borovitskaja I.V., Gorshkov P.V., Ivanov L.I., Mikhailov B.P., Mikhailova G.N., <u>Nikulin V.Ya.</u> , Pokrovskij S.V., Rudnev I.A., Troitskii A.V., Peregudova E.N.
36	8-34	STRUCTURE OF Fe-Cu COATINGS PREPARED BY THE MAGNETRON SPUTTERING METHOD <u>K. Nowakowska-Langier</u> , R. Chodun, K. Zdunek, R. Minikayev, R. Nietubyć, R. Mirowski, J. Witkowski
37	8-35	ELECTRON TRANSPORTATION ACROSS MAGNETIC FIELD IN HALL ACCELERATOR <u>S.A. Oghienko</u> , V.I. Belokon, A.I. Oranskiy
38	8-36	CURRENT CATHODE SPOTS IN GLOW DISCHARGE NORMAL REGIME AS STATIONARY DISSIPATIVE STRUCTURE: MACROSCOPIC PARAMETERS <u>O.P. Ponomaryov</u> , I.O. Anisimov
39	8-37	ON THE INFLUENCE OF TUNGSTEN IMPURITIES ON THE TRANSPORT PROPERTIES OF THERMAL PLASMA P.V. Porytskyy
40	8-38	TANTALUM PENTOXIDE CERAMIC COATINGS DEPOSITION ON Ti4Al6V SUBSTRATES FOR BIOMEDICAL APPLICATIONS <u>N. Donkov</u> , A. Zykova, V. Safonov R. Rogowska J. Smolik, V. Luk'yanchenko

Thursday 16th September

Poster №	Abstract. №	Title
41	8-39	CURRENT WAVEFORMS FOR PULSE MICRODISCHARGE INSIDE DIELECTRIC CELL O.V. Samchuk, O.I. Kelnyk
42	8-40	MICROPLASMA DISCHARGE STRIATION IN THE PDP CELL O.V. Samchuk, O.I. Kelnyk
43	8-41	OPTIMIZATION OF A VACUUM SPARK DISCHARGE AS A X-RAY SOURCE O.A. Bashutin, E.D. Vovchenko, A.S. Savjолоv, S.A. Sarantsev
44	8-42	ETHANOL REFORMING IN PLASMA-LIQUID SYSTEM WITH POSTDISCHARGE HIGHTEMPERATURE PYROLITIC CHAMBER S.M. Sidoruk, V.Ya. Chernyak, S.V. Olszewski
45	8-6	PLASMA REFORMING OF ETHANOL IN DGCLW DISCHARGE V.V. Yukhymenko, V.Ya. Chernyak, S.V. Olszewski, S.M. Sidoruk, V.P. Demchina, D. Levko, A. Shchedrin
46	8-43	RADIATION OF MULTICOMPONENT GAS-METAL PLASMA OF A PULSED REFLEX DISCHARGE Yu.V. Kovtun, A.I. Skibenko, E.I. Skibenko, Yu.V. Larin, A.N. Shapoval, V.B. Yuferov
47	8-44	ON THE TRANSPORT PROPERTIES OF A NONIDEAL PLASMA OF UNDERWATER DISCHARGES P.D. Starchyk and P. V. Porytskyk
48	8-45	OZONIZER WITH SUPERIMPOSED DISCHARGE FOR INACTIVATION OF MICROORGANISMS V.S. Taran, O.G. Chechel'nizkiy, V. V. Krasnyj, V.I. Tereshin
49	9-11	HIBP DIAGNOSTIC INJECTORS FOR URAGAN - 2M AND TJ-II STELLARATORS I. Bondarenko, A. Chmyga, G. Deshko, A. Komarov, A. Kozachok, L. Krupnik, S. Khrebtov, Yu. Tashev, A. Zhezhera
50	9-12	INVESTIGATIONS OF THERMO-IONIC EMITTERS OF HEAVY ALKALI METALS FOR DIAGNOSTIC INJECTOR OF "URAGAN-2M" STELLARATOR I. Bondarenko, A. Chmyga, G. Deshko, A. Komarov, A. Kozachok, L. Krupnik, S. Khrebtov, Yu. Tashev, A. Zhezhera
51	9-13	EXPERIMENTAL STUDIES OF ION EMISSION FROM RPI-IBIS FACILITY AND MODELING OF ION MOTIONS K. Malinowski, K. Czaus, M.J. Sadowski, E. Skladnik-Sadowska, I.E. Garkusha and V.I. Tereshin
52	9-14	THE INFLUENCE OF THE THERMAL RADIATION BACKGROUND ON PERFORMANCE OF ITER DIAGNOSTICS BASED UPON VISIBLE SPECTROSCOPY A.A. Medvedev, D.K. Vukolov
53	9-15	MAGNETIC DIAGNOSTIC IN U-2M TORSATRON V.K. Pashnev, A.A. Petrushenya, E.L. Sorokovoy, V.V. Krasnyj
54	9-16	REAL-TIME MONITORING OF THE ION AND ELECTRON TEMPERATURE WITH RETARDING FIELD ANALYZER I.S. Nedzelskiy, C. Silva, P. Duarte, H. Fernandes
55	9-17	DIAGNOSTIC SYSTEM FOR EUV RADIATION MEASUREMENTS FROM DENSE XENON PLASMA GENERATED BY MPC Yu.V. Petrov, I.E. Garkusha, A. Hassanein, D.G. Solyakov, A.K. Marchenko, V.V. Chebotarev, M.S. Ladygina, V.V. Staltsov, D.V. Yelisyeyev
56	9-18	TWO-PULSE THOMSON SCATTERING SYSTEM FOR MEASUREMENTS OF SPATIAL DYNAMICS OF ELECTRON DISTRIBUTION FUNCTION IN MULTI-MIRROR TRAP GOL-3 S.S. Popov, L.N. Vyacheslavov, M.V. Ivantsivski, A.V. Burdakov, A.A. Kasatov, S.V. Polosatkin, V.V. Postupaev

Friday 17th September

9.30-11.15 SESSION X (Hall A)

Chaired by T.Klinger and A. Lyssoivan

- 9.30 I-02 **CONCEPTUAL STUDY OF A STRAIGHT FIELD LINE MIRROR HYBRID REACTOR**
O. Ågren, V.E. Moiseenko, K. Noack, A. Hagnestål
- 10.05 I-13 **IMPURITY ION HEATING AND DRIFT VELOCITY IN THE AL'FA EXPERIMENT**
D.H. McNeill
- 10.40 I-14 **BEAM-TARGET PLASMA INTERACTION AND THERMALIZATION**
Petr Kulhanek

11.15-11.40 Coffee break

11.40-14.00 SESSION XI (Hall A)

Chaired by D. Mc. Neill and V. Astashynski

- 11.40 9-1 **PROGRESS IN DEVELOPMENT AND APPLICATIONS OF CHERENKOV-TYPE DETECTORS FOR FAST ELECTRON STUDIES IN TOKAMAKS**
M. Rabiński, L. Jakubowski, K. Malinowski, R. Mirowski, M.J. Sadowski, J. Żebrowski
- 12.00 9-2 **RECENT STUDIES OF THE ION EMISSION FROM HIGH-CURRENT PF-1000 EXPERIMENTS**
E. Składnik-Sadowska, K. Czaus, R. Kwiatkowski, K. Malinowski, M.J. Sadowski, J. Żebrowski, L. Karpinski, M. Paduch and M. Scholz
- 12.20 9-3 **SPECTROSCOPIC INVESTIGATION OF PF-1000 DISCHARGES UNDER DIFFERENT EXPERIMENTAL CONDITIONS**
M. Kubkowska, K. Jakubowska, E. Składnik-Sadowska, K. Malinowski, M. Paduch, M.J. Sadowski, M. Scholz and A.K. Marchenko
- 12.40 8-4 **COMPUTER SIMULATION OF DUST TRANSPORT PHENOMENA IN A RF DISCHARGE**
O. Yu. Kravchenko, Yu. A. Yastrub, T.Y. Lisitchenko
- 13.00 8-2 **EFFECTIVE DISSOCIATION TEMPERATURE FOR ESTIMATION OF ELECTRIC ARC PLASMA COMPOSITION**
I.L. Babich, V.F. Boretskij, A.N. Veklich
- 13.20 6-3 **LONGITUDINAL DIAMAGNETIC EFFECTS IN BEAM-PLASMA SYSTEM EMBEDDED IN AN EXTERNAL MAGNETIC FIELD**
A.V. Agafonov
- 13.40 6-6 **COMPRESSION ZONE FORMATION IN MAGNETOPLASMA COMPRESSOR OPERATING WITH HEAVY GASES**
A.K. Marchenko, V.V. Chebotarev, M.S. Ladygina, I.E. Garkusha, Yu.V. Petrov, D.G. Solyakov, V.V. Staltsov, V.I. Tereshin, A. Hassanein

14.00-15.00 Lunch

Friday 17th September

16.45-17.00 Coffee break

17.00-19.00 POSTER SESSION III (Hall B)- 55 posters

Chaired by V. Taran

Topics: **1- Magnetic confinement (reports 1-7, 1-29, 1-30, 1-32 – 1-37)**
 4 – Basic Plasma Physics (reports 4-1, 4-4, 4-5, 4-6 – 4-23)
 8 - Low Temperature Plasma and Plasma Technologies (reports 8-46 – 8-63),
 9 - Plasma Diagnostics (reports 9-19 – 9-25)

Poster №	Abstract. №	Title
1	1-7	ON THE POSSIBILITY OF SOLVING THE PROBLEM OF CONTROLLED THERMONUCLEAR FUSION BASED ON MAGNETO INERTIAL APPROACH S.V. Ryzhkov
2	1-29	PLASMA RESTRICTION BY MEANS OF POLOIDAL-TOROIDAL MAGNETIC SURFACES <u>Maksyuta M.V.</u> , Golovach G.P., Martysh Ye.V
3	1-30	A NEW FACILITY FOR FORMING AN FRC - FIELD REVERSED CONFIGURATION A.Mozgovoy, V.Nikulin and E.Peregudova
4	1-32	DYNAMICS BEHAVIOR OF MAIN PLASMA PARAMETERS DURING A SPONTANEOUS TRANSITION TO IMPROVED CONFINEMENT REGIME IN TORSATRON U-3M V.K. Pashnev, E.L. Sorokovoy, A.A. Petrushenya, Yu.K. Mironov, V.G. Konovalov, A.N. Shapoval, A.S. Slavnyj, M.B. Dreval', A.P. Pugovkin
5	1-33	THE POWER BALANCE OF AN ANEUTRONIC FIELD-REVERSED CONFIGURATION PLASMA <u>I.V. Romadanov</u> and S.V. Ryzhkov
6	1-34	NUMERICAL SIMULATION OF TRANSPORT PROCESSES IN STELLARATOR URAGAN 2M IN THE CONDITIONS OF AMBIPOLAR DIFFUSION FLUXES V.A. Rudakov
7	1-35	SELF-CONSISTENT MODEL OF RF PLASMA PRODUCTION IN STELLARATOR V.E. Moiseenko, <u>Yu. S. Stadnik</u> , A.I. Lyssoivan, M.B. Dreval
8	1-36	HYPERTHERMAL ELECTRONS FLOW PARAMETERS FLUCTUATIONS IN THE EDGE PLASMA DURING ICR HEATING ON THE U-3M TORSATRON I.K. Tarasov, M.I. Tarasov, V.K. Pashnev, D.A. Sitnikov, V.V. Olshansky, K.N. Stepanov, E.D. Volkov
9	1-37	THE DYNAMICS OF HYPERTHERMAL ELECTRONS IN THE U-3M TORSATRON V.K. Pashnev, I.K. Tarasov, M.I. Tarasov, D.A. Sitnikov, A.S. Slavnyj, A.E. Kulaga, R.O. Pavlichenko, V.L. Berezhenyj, A.V. Prokopenko, A.N. Shapoval, V.G. Konovalov, E.D. Volkov, A.V. Lozin, S.A. Tsybenko
10	4-1	IMPURITY ION DRIFT AND TOROIDAL ROTATION IN TOKAMAKS D.H. McNeill
11	4-4	EFFECT OF DUST CHARGE FLUCTUATION AND FINITE DUST TEMPERATURE ON RADIATIVE INSTABILITY OF GRAVITATING MAGNETIZED DUSTY PLASMA R.P. Prajapati and R.K. Chhajlani
12	4-6	MODE-IMPEDANCE TECHNIQUE FOR MODELING OF ELECTROMAGNETIC WAVE PROPAGATION IN PLASMAS <u>A.G. Shalashov</u> and E.D. Gospodchikov
13	4-7	CROSSTALK BETWEEN TWO PLASMONIC WAVEGUIDES Yu.A. Akimov, V.P. Olefir, <u>N.A. Azarenkov</u>

Friday 17th September

Poster №	Abstract. №	Title
14	4-8	OSCILLATION SPECTRUM OF ELECTRON PLASMA CONTAINING SMALL FRACTION OF IONS OF BACKGROUND GAS (AZIMUTH WAVE NUMBER $m = 2$) Yu.N. Yeliseyev
15	4-9	ELECTROMAGNETIC WAVES IN LEFT-HAND MATERIAL SLAB THAT BOUNDED BY MEDIA WITH DIFFERENT PERMITTIVITY N.A. Azarenkov, <u>V.K. Galaydych</u> , V.P. Olefir, A.E. Sporov
16	4-10	PARAMETRIC EFFECT OF AN ALTERNATING ELECTRIC FIELD ON SURFACE ELECTRON CYCLOTRON X- AND O-MODES A. Girka, <u>V. Girka</u>
17	4-11	NONLOCAL APPROACH AND PLASMA DENSITY PROFILES IN POSITIVE COLUMN <u>A.V. Gapon</u> , N.A. Azarenkov
18	4-12	SOLITONS IN TWO-FLUID MHD <u>M.B. Gavrikov</u> , V.V. Savelyev, A.A. Tayurskiy
19	4-13	SELFCONSISTENT NUMERICAL SIMULATION OF POWER ABSORPTION IN HELICON PLASMAS V.V. Olshansky
20	4-14	SURFACE WAVES FOR PLASMONIC INTERCONNECTS Yu.A. Akimov, <u>V.P. Olefir</u> , N.A. Azarenkov
21	4-15	DISPERSION RELATIONS FOR FIELD-ALIGNED CYCLOTRON WAVES IN AN AXISYMMETRIC TOKAMAK PLASMA WITH ANISOTROPIC TEMPERATURE <u>N.I. Grishanov</u> , N.A. Azarenkov
22	4-16	A THEORETICAL STUDY OF SURFACE LOCALIZED MODES IN FREE SPACE V.E. Moiseenko, <u>A.P. Kovtun</u>
23	4-17	NONLINEAR ELECTROSTATIC WAVES IN UNMAGNETIZED PAIR-ION PLASMAS <u>S. Mahmood</u> and H. Ur Rehman
24	4-18	WEAKLY RELATIVISTIC PLASMA DISPERSION FUNCTIONS COMPUTATION ON THE BASE SUPERASYMPTOTIC AND HYPERASYMPTOTIC SERIES <u>S.S. Pavlov</u> , F. Castejón, M. Tereshchenko
25	4-19	INHOMOGENEOUS RELATIVISTIC PLASMA DIELECTRIC TENSOR S.S. Pavlov
26	4-20	SYMMETRIC AND DIPOLAR ELECTROMAGNETIC WAVES IN COAXIAL STRUCTURE FILLED BY NON-UNIFORM DISSIPATIVE PLASMA WITH AZIMUTH MAGNETIC FIELD V.P. Olefir, <u>A.E. Sporov</u>
27	4-21	CONSERVATION OF MAGNETIC MOMENT OF CHARGED PARTICLES IN STATIC ELECTROMAGNETIC FIELDS V. E. Moiseenko, <u>M. A. Surkova</u> , O. Ågren
28	4-22	THE STABILITY OF MAGNETIZED NON-NEUTRAL PLASMA FLOW WITH THE RADIAL SHEAR OF DRIFT VELOCITY M.I. Tarasov, I.K. Tarasov, D.A. Sitnikov
29	4-23	PERMITTIVITY OF PLASMA UNDERGOING RANDOM WAVE FIELD V. Zasenkov, A. Zagorodny, J. Weiland
30	8-46	INVESTIGATION OF OZONE FORMATION IN THE PLASMA FORMED AS A RESULT OF THE BARRIER DISCHARGE V.V. Andreev, L.A. Vasil'eva

Friday 17th September

Poster №	Abstract. №	Title
31	8-47	APPLICATION OF HF DISCHARGE FOR NITRIDING OF INNER SURFACES OF CYLINDRICAL SPECIMENS MADE FROM TITANIUM AND STAINLESS STEEL V.V. Gasilin, R.M. Muratov, Yu.N. Nezovibat'ko, <u>V.S. Taran</u> , O.M. Shvets
32	8-48	INFLUENCE OF PLASMA NUCLEI ON RADIATION DIRECTIVITY IN HIGH-CURRENT PULSE PLASMA DIODE A.F. Tseluyko, V.T. Lazuryk, D.L. Ryabchikov, A. Hassanein, I.V. Borgun, V.I. Maslov, I.N. Sereda
33	8-49	DYNAMIC OF WALL CURRENTS IN PULSE PLASMA DIODE IN TIN VAPOR A.F. Tseluyko, V.T. Lazuryk, D.L. Ryabchikov, A. Hassanein, I.V. Borgun, I.N. Sereda
34	8-50	PLASMA CLEANING OF THE SURFACES FROM OXIDES: THE STATE OF THE ART V.S. Voitsenya, S. Masuzaki, O. Motojima, J. Davis
35	8-51	SIMULATING STUDY OF PLASMACHEMICAL EROSION OF A-C:H FILMS IN A ECR DISCHARGE PLASMA V.G. Kononov, M.N. Makhov, I.V. Ryzhkov, A.N. Shapoval, A.F. Shtan', S.I. Solodovchenko, A.I. Timoschenko, V.S. Voitsenya
36	8-52	ABOUT CHANGE OF PLASMA PARAMETERS OF GAS SOURCE WITH INCANDESCENT CATHODE AT ADDITIONAL APPLICATION OF HF DISCHARGE V.B. Yuferov, S.V. Shariy, M.O. Shvets, O.S. Druy, A.S. Svichkar T.I. Olhovskaya
37	8-53	ABOUT MAGNETIC FIELDS INFLUENCE ON AUTONOMOUS PLASMOIDS OVER A WATER SURFACE V.B. Yuferov, E.V. Mufel, V.I. Tkachov, S.V. Shariy
38	8-54	ABOUT SPATIAL DISTRIBUTION OF CHARGED PARTICLES FLOWS AT THE PLASMA ROTATION IN CROSSED ELECTRIC AND MAGNETIC FIELDS V.B. Yuferov, S.V. Shariy, M.O. Shvets, O.S. Druy, A.S. Svichkar, T.I. Olhovskaya
39	8-55	THE EFFECT OF UNINTENTIONAL OXYGEN INCORPORATION INTO Cr-CrN-DLC COATINGS DEPOSITED BY MePIII METHOD USING FILTERED CATHODIC VACUUM ARC CARBON AND METAL PLASMA J. Walkowicz, J. Bujak, <u>V. Zavaleyev</u>
40	8-56	OPTIMIZATION OF THE PLASMA ELECTROSTATIC FILTER USING Taguchi METHOD <u>V. Zavaleyev</u> , J. Walkowicz
41	8-57	LOW TEMPERATURE PLASMA AT LOW PRESSURES IN THE PROCESS OF SURFACE TREATMENT OF MATERIALS <u>L.N. Bagautdinova</u> , R.Sh. Basyrov, Al.F. Gaisin, F.M. Gaisin
42	8-58	EFFICIENCY OF THE NITRIDING PROCESS IN GLOW DISCHARGE PLASMA <u>V.A. Zhovtyanski</u> , V.G. Nazarenko, V.O. Khomych, A.V. Ryabtsev, I.O. Nevzglyad, O.Ya. Shnyt
43	8-59	CURRENT-VOLTAGE CHARACTERISTICS OF COMBINED MAGNETRON – RF INDUCTIVE DISCHARGE E.V. Timofeeva, S.D. Yakovin, A.V. Zykov
44	8-60	INTEGRAL CLUSTER SET-UP FOR COMPLEX COMPOUND COMPOSITES SYNTHESIS S. Yakovin, S. Dudin, A. Zykov, V. Farenik

Friday 17th September

Poster №	Abstract. №	Title
45	8-61	DIPOLE ELECTRON RADIATION OF HETEROGENEOUS LOW - TEMPERATURE PLASMA IN THE RADIO-FREQUENCY RANGE V.I. Marenkov
46	8-62	POLYESTER FABRIC WETTABILITY IMPROVEMENT UPON APPLICATION OF ATMOSPHERIC DIELECTRIC BARRIER PLASMA J. Píchal, D. Hollá, J. Sláma
47	8-63	GLIDING DISCHARGE: EFFECT OF ELECTRODES' DESIGN AND POSITION ON PLASMA FLOW PROFILE J. Sláma, J. Píchal
48	9-19	THE ACQUISITION SYSTEM OF EXPERIMENTAL DATA FOR "URAGAN-2M" S.P. Gubarev, G.P. Opaleva, V.S. Taran, V.I. Tereshin, M.I. Zolototrubova
49	9-20	PLASMA POLOIDAL ROTATION DYNAMICS ON U-3M TORSATRON D.A. Sitnikov, M.I. Tarasov, I.K. Tarasov, V.K. Pashnev, A.I. Skibenko, A.V. Prokopenko
50	9-21	ION TEMPERATURE PROFILE MEASUREMENTS VIA CHARGE EXCHANGE RECOMBINATION SPECTROSCOPY (CXRS) AT T-10 TOKAMAK S.N. Tugarinov, V.A. Krupin, A.G. Barsukov, V.F. Korolev, N.N. Naumenko, V.A. Nikulin A.V. Sushkov, G.N. Tilinin
51	9-22	COMPARISON OF BEHAVIOR UNDER ION BOMBARDMENT OF AMORPHOUS AND CRYSTALLIZED MIRRORS FABRICATED FROM AMORPHOUS ALLOY Zr(41.2%)Ti(13.8%)Cu(12.5%)Ni(10%)Be(22.5%) V.S. Voitsenya, A.F. Bardamid, U. Breuer, V.N. Bondarenko, V.G. Konovalov, K.V. Kovtun, A. Litnovsky, I.V. Ryzhkov, A.N. Shapoval, A. F. Shtan', S.I. Solodovchenko, O.V. Trembach, A.A. Vasil'ev, K.I. Yakimov
52	9-23	MODIFICATION OF TUNGSTEN OPTICAL PROPERTIES DUE TO EXPOSURE TO LOW-ENERGY, HIGH FLUX DEUTERIUM PLASMA IONS W.Kh. Alimov, A.I. Belyaeva, A.A. Galuza, K. Isobe, V.G. Konovalov, I.V. Ryzhkov, A.A. Savchenko, K.A. Slatin, V.S. Voitsenya, T. Yamanishi
53	9-24	CHANGES TO THE REFLECTANCE OF BE MIRRORS UNDER IMPACT OF OXYGEN-CONTAMINATED DEUTERIUM PLASMAS A.F. Bardamid, V.N. Bondarenko, J.W. Davis, V.G. Konovalov, I.V. Ryzhkov, A.N. Shapoval, A.F. Shtan', S.I. Solodovchenko, V.S. Voitsenya
54	9-25	TOKAMAK ISTTOK: CURRENT STATUS IN DEVELOPMENT OF METHODS FOR CHARACTERIZATION OF SUPER-THERMAL AND RUNAWAY ELECTRONS V.V. Plyusnin, L. Jakubowski, C.Silva, J. Zebrowski, H. Fernandes, P. Duarte, K. Malinowski, M. Rabinski, M.J. Sadowski
55	PD-2	SOME PRELIMINARY RESULTS OF RE SUPPRESSION STUDIES ON T-10 TOKAMAK M.M.Dremin, Yu.D.Pavlov, S.G.Maltsev, S.V.Krylov, G.E.Notkin, A.Ya.Kislov, T-10 Team

19.30- 22.30

CONFERENCE DINNER

9.00-11.30 SESSION XII (Hall A)

9.30	4-3	QUANTIFYING EDGE PLASMA TURBULENCE BY ANOMALOUS DYNAMICS <u>A. Chechkin</u> , A. Wylomanska, K. Burnecki, A. Beletskii and V. Chechkin
9.50	1-4	1-4 APPLICATION OF ELECTRODE-DRIVEN SHEAR FLOWS FOR IMPROVED PLASMA CONFINEMENT <u>A. Beklemishev</u> , P. Bagryansky, V. Prikhod
10.10	1-9	LOCALIZATION OF ROTATING MHD MODES BY POLOIDAL SOFT X-RAY DETECTOR ARRAYS IN THE STOR-M TOKAMAK <u>M. Dreval</u> , C. Xiao, S. Elgriw, D Trembach, S. Wolfe, and A. Hirose
10.30	1-18	THE TRANSITION TO THE REGIME OF IMPROVED CONFINEMENT IN TORSATRON U-3M IN RANGE OF RARE COLLISION FREQUENCIES V.K. Pashnev, <u>E.L. Sorokovoy</u> , V.L. Berezhnyj, P.Ya. Burchenko, E.D. Volkov, V.V. Krasnyj, A.V. Lozin, Yu.K. Mironov, A.A. Petrushenya, I.B. Pinos, A.I. Skibenko, A.S. Slavnyj, M.B. Dreval, A.Ye. Kulaga, S.A. Tsybenko, A.Yu. Es'kov
10.50	8-9	PLASMA LIQUID SYSTEM WITH REVERSE VORTEX FLOW OF TORNADO TYPE (TORNADO-LE) O.A. Nedybaliuk, S.V.Olszewski, V.YA. Chernyak
11.10	6-2	PONDEROMOTIVE FORCE AND STEADY CURRENT INDUCED IN A PLASMA BY A ROTATING RF FIELD GENERATED WITH PHASED ANTENNAS K.P. Shamrai and S. Shinohara

11.30 **CLOSING**

DEPARTURE

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