

PART II

- P-10 ELECTRODE AND SURFACE EFFECTS (continued)
- P-1034 Schrade H.O., Auweter-Ming M., Kurtz H.L.
AN APPROACH TO EXPLAIN ARC RETROGRADE MOTION
- P-1035 Schumacher A.
ELECTRON DISTRIBUTION IN THE BOUNDARY LAYER OF A WEAKLY IONIZED
COLLISION DOMINATED PLASMA
- P-1036 Serapinas P., Buteikis R., Oberauskas J.
INVESTIGATION OF THE ATOMIZATION OF AL AND AL ALLOYS IN
SPARK DISCHARGE PLASMA
- P-1037 Shcurko V.V., Antonov G.S.
ENERGY SPECTRUM OF IONS OF DENSE PLASMA EXPANDING IN VACUUM
- P-1038 Siemroth P., Jüttner B.
CRATER FORMATION BY HIGH CURRENT DISCHARGES IN VACUUM
- P-1039 Sizonenko V.L., Shergin G.G.
THE EFFECT OF A GAS SHEATH ON PLASMA-WALL INTERACTION
- P-1040 Sokolova M.V.
SOME ASPECTS OF AN AIR DISCHARGE IN A PLANE GAP WITH DIELECTRIC
ON THE ELECTRODE
- P-1041 Teplanová K., Košinár I., Martišovitš V.
A COLLISION-DOMINATED MODEL OF THE ELECTRIC SHEATH
- P-1042 Tkharev E.E., Daniljuk A.L.
THE ELECTRON DENSITY AND POTENTIAL DISTRIBUTION AT THE PLASMA
DIELECTRIC INTERFACE
- P-1043 Uba L., Brzosko J.S.
CHARGE DENSITY IN CHANNELS OF PARTIAL DISCHARGES AT DIELECTRIC
SURFACE
- P-1044 Żukowski E., Brzosko J.S.
NOTE ON THE TRAPPING AND EMISSION OF ELECTRONS IN SURFACE
DISCHARGE PROCESSES
- P-1045 Zake M.V., Mel'nikov V.K., Yatchenko I.N.
HEAT, ELECTRICAL AND CHEMICAL INTERACTION OF PLASMA WITH
HIGH-MELTING METALS IN A TRANSVERSAL MAGNETIC FIELD
- P-11 BREAKDOWN OF GASES AND VACUUM SPARK DEVELOPMENT, TOWNSEND AND
CORONA DISCHARGES, PULSED DISCHARGES
- P-1101 Akazaki M., Nieda H., Otsubo M.
PROCESSES OF IMPULSE FLASHOVER AT LOW PRESSURE IN AIR
- P-1102 Alexandrov A.F., Artamonov V.I., Surov O.I.,
Timofeyev I.B., Yusupaliyev U.
STRUCTURE OF THE REFLECTED ZETA-PINCH
- P-1103 Asinovsky E.I., Vasiljak L.M., Tockunov Yu.M.
IONIZING WAVE OF POTENTIAL GRADIENT AT HIGH VOLTAGE AND
HIGH PRESSURE

P-1104	Allibone T.E., Saunderson J.C. DISCHARGE CHARACTERISTICS OF SPHERE AND ROD GAPS STRESSED WITH D.C. VOLTAGES	561
P-1105	Babanin V.I., Ender A.Ya. CALCULATION OF VOLT-AMPERE CHARACTERISTICS OF THE KNUDSEN DISCHARGE FOR THE NONMONOTONIC DEPENDENCE OF THE IONIZATION CROSS-SECTION ON ELECTRON ENERGY	563
P-1106	T.V. Babu Rajendran, M.S. Naidu LIGHTNING IMPULSE VOLTAGE BREAKDOWN OF NONUNIFORM FIELD GAPS IN INSULATING GASES AND THEIR MIXTURES	565
P-1107	Baksht R.B., Kablambaev B.A., Ratachin N.A. PHYSICAL PROCESSES IN NANOSECOND VACUUM SPARK	567
P-1108	Batenin V.M., Galkin A.F., Klimovsky I.I. RADIAL DISTRIBUTION OF PLASMA PARAMETERS IN CONTINUOUSLY PULSED HIGH-VOLTAGE DISCHARGE AFTERGLOW IN THE MIXTURES OF METAL VAPOR AND RARE GASES	569
P-1109	Berger G. COLLISIONAL DETACHMENT LIFETIME OF NEGATIVE IONS IN ATMOSPHERIC AIR	571
P-1110	Berril J., Bregnsbo E., Christensen J.M., McAllister I.W. REQUIREMENTS OF A SIMPLE TECHNIQUE FOR COMPARING THE INSULATING PROPERTIES OF COMPRESSED GASES OR GAS MIXTURES	573
P-1111	Borisov V.M., Visikaylo Ph.I., Kiryukhin Yu.B., Kristoforov O.B. CHARACTERISTIC PROPERTIES OF THE SLIDING DISCHARGE ON DIELECTRIC SURFACE WITH A HIGH REPETITION FREQUENCY	575
P-1112	Broitman A.P., Omarov O.A. ON A PLASMA THEORY OF STREAMER GAS BREAKDOWN	577
P-1113	Brunet A., Faure F. POSITIVE CORONA DISCHARGES ON A COMPOSITE ELECTRODE	579
P-1114	Buttar H.K., Bolanowski B. ELECTRICAL REIGNITION OF A SHORT A.C. ARC	581
P-1115	Bykowsky U.A., Lagoda V.B. INVESTIGATION OF PLASMA FORMATIONS IN HIGH-CURRENT PINCHING DISCHARGE	583
P-1116	Chandrakar K. FULLY IONIZED PULSED PLASMA AT LOW GAS PRESSURE	585
P-1117	Chutov Yu.I., Kravchenko A.I., Lisitchenko T.E., Korolyuk O.V., Vovchenko Yu.V., Chernolutsky D.L., Melnichenko V.L. PROPERTIES OF NONEQUILIBRIUM PULSING DISCHARGE	587
P-1118	Desyatkov G.A., Gurovich V.Ts., Spektorov V.L. ABOUT ONE NEW SELF-SIMILAR SOLUTION IN THE THEORY OF HIGH-CURRENT GAS DISCHARGE	589
P-1119	Dubinin N.P., Chistyakov P.N. VACUUM GAP ELECTRICAL STRENGTH UNDER REPEATED BREAKDOWNS	591
P-1120	Dutton J., Williams W.T. ELECTRICAL BREAKDOWN BETWEEN SINGLE CRYSTAL ELECTRODES AND POLYCRYSTALLINE ELECTRODES IN SF ₆ AT HIGH PRESSURES	593
P-1121	Fal'kovsky N.I., Belinsky V.V., Nikitina S.G. RADIATION PECULIARITIES OF POSITIVE DISCHARGE IN POINT-PLANE GAP	595

- P-1122 Gagarin A.G.
RELAXING PHENOMENA IN THE CORONA DISCHARGE
- P-1123 Genkin S.A., Khuzeev A.P., Korolev Yu.D.,
 Mesyats G.A., Rabotkin V.G.
RESEARCH ON THE STAGE OF SPARK CHANNEL PROPAGATION FROM A CATHODE
SPOT WITH NON-SELF-MAINTAINED GLOW DISCHARGE CONSTRICTION
- P-1124 Grosu D.
ON THE STUDY OF THE BREAKDOWN IN AN ELECTRIC GAS DISCHARGE
- P-1125 Gurevich A.V., Dnestrovsky Yu.N., Istomin Ya.N.,
 Kostomarov D.P., Smirnov A.P.
THE INITIAL STAGE OF GAS IONIZATION IN THE ELECTRIC FIELD
- P-1126 Hauschild W., Schwarz J.
EMPIRICAL CALCULATION OF BREAKDOWN VOLTAGE-TIME-CHARACTERISTICS
FOR SF₆ INSULATIONS
- P-1127 Heylen A.E.D.
ELECTRICAL BREAKDOWN AND IONIZATION IN NITROGEN-ETHANE GAS
MIXTURE AT HIGH PRESSURE
- P-1128 Jacques L., Bruynooghe W.
MEASUREMENT OF TOWNSEND IONIZATION COEFFICIENTS AND THE
BREAKDOWN POTENTIALS IN KRYPTON
- P-1129 Kapoun K., Kapička V.
CHARGE CARRIER CONCENTRATION AT AIR BREAKDOWN IN SUPERIMPOSED FIELDS
- P-1130 Kapoun K., Strzondala V.
BREAKDOWN OF AIR STUDY BY THE SCHLIEREN METHOD
- P-1131 Kekez M.M., Savic P.
ESTIMATES OF THE RADIUS AT THE LEADER TIP
- P-1132 Khodachenko G.V., Fetisov I.K., Korolyov L.V.
INVESTIGATION OF THE DISCHARGE SPARKING CONDITIONS IN A CROSSED
MAGNETIC FIELD
- P-1133 Kolbychev G.V.
THE INFLUENCE OF RUNNING ELECTRONS ON THE DEVELOPMENT OF THE
MIDDLE-PRESSURE GAS DISCHARGE
- P-1134 Korge H., Kudu K., Laan M.
ON THE MECHANISM OF HIGH FREQUENCY DISCHARGE DEVELOPMENT
- P-1135 Aints M.H., Kudu K.F., Haljaste A.J.
A SINGLE-CHANNEL HF POINT DISCHARGE IN THE ATMOSPHERIC AIR
- P-1136 Koshilev N.A., Mikhalev A.V., Strokin N.A., Shishko A.A.
INVESTIGATION OF GAS BREAKDOWN PECULIARITIES IN A ONE-TURN SOLENOID
WITH QUASI-STATIONARY MAGNETIC FIELD
- P-1137 Maitland A.
THE ROLE OF ION AND ELECTRON BEAM CURRENTS IN VACUUM BREAKDOWN
BETWEEN PLANE ELECTRODES
- P-1138 Mosch W., Lemke E., Dietrich M.
A CRITERION FOR THE IGNITION OF LEADER DISCHARGES AT LARGE
ELECTRODES IN VERY LONG AIR GAPS
- P-1139 Mosch W., Schwarz J., Hauschild W.
INTERPRETATION OF BREAKDOWN VOLTAGE-TIME-CHARACTERISTICS FOR A
COAXIAL SYSTEM IN SF₆

P-1140	McAllister I.W., Crichton G.C., Vibholm S. NEGATIVE CORONA/AVALANCHE PHENOMENA IN AMBIENT AIR	633
P-1141	Nastase L., Pascu M.L., Musa G. NANOSECOND TRANSIENTS IN A TOWNSEND DISCHARGE	635
P-1142	Nema R.S., Kulkarni S.V., Husain E. CALCULATION OF BREAKDOWN VOLTAGES OF MIXTURES OF ELECTRON- ATTACHING GASES	637
P-1143	Omarov O.A. Osmanov I.I. Shikhaev A.Sh. THE FORMATION OF THE HIGH-PRESSURE SPARK GAS BREAKDOWN IN HIGH MAGNETIC FIELD	639
P-1144	Pasyuk A.S., Kutner V.B. PRODUCTION OF MULTIPLY CHARGED IONS FROM A PULSE ARC DISCHARGE	641
P-1145	Rogashkova A.I., Chernov Z.S. THEORETICAL ANALYSIS OF NONLINEAR EFFECTS ORIGINATED IN WEAKLY IONIZED PLASMA BY NANOSECOND MICROWAVE PULSE	643
P-1146 (I,II)	Selim E.O., Waters R.T. ELECTRIC FIELD CHANGES ASSOCIATED WITH IMPULSE VOLTAGES APPLIED TO AIR GAPS	645
P-1147 (I,II)	Sigmond R.S., Goldman M. POSITIVE STREAMER PROPAGATION IN SHORT CORONA GAPS IN AMBIENT AIR	649
P-1148	Goldman M., Sigmond R.S. POSITIVE STREAMER DECAY AND TRANSITION TO SPARK IN SHORT CORONA GAPS AN AMBIENT AIR	653
P-1149	Skrebov V.N. THE BEHAVIOUR OF NEUTRAL GAS IN AN IMPULSIVE DISCHARGE PLASMA	655
P-1150	Tatarinova N.V., Osipov N.A. ABNORMAL CHARACTERISTICS OF PREBREAKDOWN CURRENTS IN VACUUM	657
P-1151	Veretennikov V.A., Semenov O.G., Sidelnikov Yu.V. EXPERIMENTAL STUDY OF MICROPINCH DYNAMICS IN VACUUM SPARK	659
P-1152	Vedenov A.A., Gladush G.G., Samokhin A.A. NUMERICAL STUDY OF FORMATION AND PROPAGATION OF THE STREAMER IN A WEAKLY IONIZED GAS	661
P-1153	Vlastós A.E. DC BREAKDOWN VOLTAGE AND CURRENT IN AIR AND SF ₆ FOR CYLINDRICAL ELECTRODES	663
P-12	GLOWS AND ARCS	
P-1201	Abramovich L.J., Nastich Y.N. STUDY OF THE COMPOSITION OF IONS IN A NEGATIVE GLOW PLASMA OF A HIGH-CURRENT PULSED HOLLOW CATHODE GLOW DISCHARGE	665
P-1202	Akishev Yu.S., Dvurechensky S.V., Napartovich A.P., Pashkin S.V., Ponomarenko V.V., Trushkin N.I. ON ELEMENTARY PROCESSES DETERMINING THE DIMENSION OF FARADAY SPACE OF A HIGHER PRESSURE GLOW DISCHARGE IN AIR	667
P-1203	Amirov R.H., Asinovsky E.I., Markovets V.V., Fomin V.P. HOW TO OBTAIN AND CONTROL TEMPERATURES OF ELECTRONS (T =0.05-0.5 eV) IN LOW TEMPERATURE PLASMA	669

P-1204	Anshakov A.S., Belyaeva O.I., Kosinov V.A., Cherednichenko V.S. STUDIES OF THE NEAR-CATHODE REGION OF HOLLOW CATHODE IN HEAVY-CURRENT ARC CONDITIONS	671
P-1205	Asanov D.S., Engelsht V.S., Nevelev D.V., Slobodianjuc V.S., Zhainakov A. A HIGH-CURRENT ARC IN A NARROW PASSING	673
P-1206	Arutunian G.G., Galechian G.A., Tavakalian L.B. CHARGED PARTICLES CONCENTRATION DISTRIBUTION ALONG THE POSITIVE COLUMN RADIUS OF GLOW DISCHARGE IN ELECTRONEGATIVE GASES	675
P-1207	Babaevsky A.N., Kantorovich I.I., Skutov D.K., Sorokin L.M. ON THE HIGH-FREQUENCY INDUCTION DISCHARGE GENERATION IN THE CHANNEL WITH PERMEABLE WALLS	677
P-1208	Barkalov A.D., Gladush G.G. THEORY AND CALCULATION OF THE AIR DISCHARGE STRATIFICATION AT MEDIUM PRESSURES	679
P-1209	Belan N.V., Oransky A.I. PHYSICAL PECULIARITIES OF SELF-MAINTAINED ARC DISCHARGES WITH HIGH-EMISSION HOLLOW CATHODES	681
P-1210	Biborosch L., Popa G., Sanduloviciu M. THE IONIZATION-DIFFUSION INSTABILITY OF THE POSITIVE COLUMN HEAD IN THE HELIUM-NEON MIXTURES	683
P-1211	Borbat A.M., Korolyova Z.P., Skirda A.S., Tetera V.P. INVESTIGATION OF KINETICS OF ARC DISCHARGE BETWEEN ELECTRODES WITH EMISSIVE OXIDE COATING	685
P-1212	Rafi M. Chaudhri, Tasneem Zahra, M. Munawar Chaudhri THE THROBBING OF THE GLOW DISCHARGE	687
P-1213	Dostanko A.P., Pikul M.I., Krasnitsky V.Y. THE DISCHARGE INVESTIGATION IN CROSSED FIELDS USING MATHEMATICAL STATISTIC METHOD	689
P-1214	Dykhne A.M., Napartovich A.P., Taran M.D., Taran T.V., Favorsky A.P. THE NUMERICAL STUDY OF GLOW DISCHARGE CONSTRICTION	691
P-1215	Engelsht V.S., Kozlov P.V., Zhainakov A. A MODEL OF EXTENDED ARC	693
P-1216	Evtushenko G.S., Murav'ev I.I., Soldatov A.N. NONELASTIC ELECTRON-ATOM COLLISIONS AND STRUCTURAL CHARACTER OF THE ELECTRON ENERGY DISTRIBUTION FUNCTION IN THE GLOW DISCHARGE PLASMA	695
P-1217	Evtushenko G.S., Murav'ev I.I. SPECTRAL LINE INTENSITY DISTRIBUTION AND ELEMENTARY PROCESSES IN THE NEGATIVE GLOW DISCHARGE	697
P-1218	Fourrier C.T. EXCITATION AND IONIZATION OF THE SPUTTERED TITANIUM IN THE NG OF AN ANOMALOUS GLOW DISCHARGE	699
P-1219	Freisinger J., Thueringer R. DIAGNOSTICS OF THE DISCHARGE ON AN RF-ION SOURCE FOR INTENSE HYDROGEN ION BEAMS	701
P-1220	Ginal S.W. ENERGY TRANSFER IN THE SEGMENTED NOZZLE OF A D.C. ARC HEATER	703

P-1221	Glushko V.A., Naumovets V.G., Pasechnik L.L., Prokhorov M.M., Semenyuk V.F., Yagola V.V.	
	THE MAGNETIC FIELD EFFECT ON RECTIFYING PROPERTIES OF COAXIAL HF DISCHARGE	705
P-1222	Gorokhovskiy V.I.	
	THE VARIATIONAL MODEL OF AN ELECTRIC ARC ON MOTION	707
P-1223	Hrachová V.	
	PLASMA PARAMETERS OF THE OXYGEN-HELIUM AND OXYGEN-NEON GLOW DISCHARGE	709
P-1224	Grushev V.A., Kreindel Yu.E., Troyan O.E.	
	THE COLD HOLLOW CATHODE DISCHARGE INITIATION AT LOW PRESSURE	711
P-1225	Groh K.H., Lenz B., Schweitzer M.	
	IMPROVED ENERGY TRANSFER INTO THE DISCHARGE PLASMA OF RF-ION THRUSTERS	713
P-1226	Hrabovský M., Konrád M.	
	EFFECT OF GAS PROPERTIES ON CURRENT-ZERO BEHAVIOUR OF AXIALLY BLOWN A.C. ARC	715
P-1227	Hülsmann H.G., Mentel J.	
	NEW THEORETICAL AND EXPERIMENTAL INVESTIGATIONS ON THE HELICAL MAGNETIC INSTABILITY OF ELECTRIC ARCS	717
P-1228	Hülsmann H.G., Mentel J.	
	RESULTS OF THEORETICAL AND EXPERIMENTAL INVESTIGATIONS ON THE HELICAL MAGNETIC INSTABILITY OF ELECTRIC ARCS	719
P-1229	Ishikawa I., Suganomata S., Matsumoto M.	
	SMALL AMPLITUDE WAVE IN LOW PRESSURE DISCHARGE OF SF ₆	721
P-1230	Karchevskiy A.I., Potanin E.P.	
	MECHANISMS OF ISOTOPE SEPARATION IN DIRECT CURRENT DISCHARGE	723
P-1231	Kim A.V., Fraiman G.M.	
	THE NONLINEAR REGIME OF IONIZATION-THERMAL INSTABILITY OF A NONEQUILIBRIUM HF HIGH PRESSURE DISCHARGE	725
P-1232	Kosoruchkina A.D.	
	MEAN ELECTRON ENERGY EFFECTS IN DETERMINATION OF $x^1 \sum_g^+ N_2$ -STATE VIBRATIONAL TEMPERATURE BY THE OPTICAL METHOD	727
P-1233	Kopiczyński T., Lubański M., Zakrzewski Z.	
	NORMALIZED CHARACTERISTICS OF A LOW PRESSURE DISCHARGE IN A WAVEGUIDE	729
P-1234	Kim D. Ch.	
	INFLUENCE OF EXTERNAL MAGNETIC FIELD ON GAS DISCHARGE CHARACTERISTICS IN HYDROGEN	731
P-1235	Kovalev A.S., Popov A.M., Rakhimov A.T., Suetin N.V.	
	DEVELOPMENT OF THE NON-SELF-SUSTAINED DISCHARGE BREAKDOWN IN NITROGEN	733
P-1236	Kovitya P., Lowke J.J.	
	A TWO-ZONE MODEL FOR ABLATION-STABILIZED ARCS	735
P-1237	Kuhn S.	
	AXIAL EQUILIBRIA AND DISRUPTIVE EFFECTS IN COLLISIONLESS SINGLE-ENDED Q-MACHINES	737
P-1238	Kuo Tseng-Yuan	
	TEMPERATURE AND FLOW FIELD OF A FREE-BURNING ARC DEVIATED BY A TRANSVERSE MAGNETIC FIELD	739

- P-1239 Kurtz A., Mentel J.
MEASUREMENT OF THE THERMAL CONDUCTIVITY OF Cl_2 IN THE DISSOCIATION REGIME
- P-1240 Kushlyansky O.A., Nastyukha A.I.
THE HOLLOW-CATHODE EFFECT ON A ROD CATHODE IN THE MAGNETIC FIELD
- P-1241 Martišovits V., Košinár I.
EFFECT OF THE TWO-STAGE IONIZATION ON RADIAL TRANSPORT OF CHARGED AND METASTABLE PARTICLES
- P-1242 Novikov O.Y., Putko V.F., Sobolev V.S.
ELECTRIC ARC IN ROTATING MAGNETIC FIELDS OF DIFFERENT CONFIGURATIONS
- P-1243 Oreshkov T., Petrakiev A.
INVESTIGATION OF THE UNIPOLAR ARC PLASMA STRUCTURE BY SPECTRAL AND EQUIDENSITOMETRICAL METHODS
- P-1244 Penkin N.P., Smirnov V.V., Tsygir O.D.
ELECTROKINETIC CHARACTERISTICS AND DISSOCIATION OF O_2 IN OXYGEN GLOW DISCHARGE
- P-1245 Persiantsev I.G., Polushkin V.M., Rakhimov A.T., Rebrik S.P., Timofeyev M.A.
A STUDY OF THE INSTABILITY OF THE STEADY-STATE NON-SELF-SUSTAINED DISCHARGE IN NITROGEN
- P-1246 Proskourovsky D.I., Puchkarev V.Ph.
VACUUM ARC RESPONSE TO CURRENT TRANSIENTS
- P-1247 Reshonov S.P., Antoshkin N.F.
PLASMA GENERATION IN THE HOLLOW CATHODE ARC DISCHARGE
- P-1248 Rohwer P., Baumann H., Schütze W., Bethge K.
MEASUREMENTS OF PLASMA POTENTIALS
- P-1249 Rosado R., Timmermans C.J., Schram D.C., Helbig V., Kolacinski Z.
HIGH TEMPERATURE, HIGH DENSITY PLASMAS IN A PULSED DC ARC
- P-1250 Rykalin N.N., Nikolaev A.V., Borzhov A.P.
ELECTRIC PARAMETERS AND ENERGY BALANCE OF AC PLASMA ARC WITH A HOLLOW CATHODE
- P-1251 Szczepańska H., Venzke D., Mizeraczyk J.
STUDY OF A TRANSVERSE ABNORMAL GLOW DISCHARGE BETWEEN TWO CYLINDRICAL ELECTRODES IN NITROGEN
- P-1252 Suginuma Y., Nogaki M.
FLIP-FLOP TYPE TRANSITION (FFTT) BETWEEN GLOW AND ARC DISCHARGES IN AIR AND IN N_2
- P-1253 Sorokina V.M., Tkachenko V.M.
STUDY OF THE CYLINDRICAL HOLLOW CATHODE DISCHARGE IN A MAGNETIC FIELD
- P-1254 Timanyuk V.A., Tkachenko V.M.
HOLLOW CATHODE TEMPERATURE EFFECT ON THE GLOW DISCHARGE IN HELIUM
- P-1255 Tyuryukanov P.M., Fetissov I.K., Nikolski A.D.
LOW-PRESSURE HIGH-CURRENT DISCHARGE IN THE CROSSED HIGHLY NONHOMOGENEOUS MAGNETIC FIELD

P-1256	Vasin A.I., Dorodnov A.M., Kuznetsov A.N., Petrosov V.A. TWO NEW TYPES OF VACUUM ARC	775
P-1257	Valentini H.-B. THEORY OF THE POSITIVE COLUMN CONTAINING SEVERAL SPECIES OF ATOMS AND IONS AND INCLUDING STEPWISE PROCESSES AND THE SPATIAL VARIATION OF THE ELECTRON TEMPERATURE	777
P-1258	Vikharev A.L., Gil'denburg V.B., Ivanov O.A., Stepanov A.N. HIGH-FREQUENCY DISCHARGE IN CROSSED ELECTROMAGNETIC WAVE BEAMS	779
P-1259	Wagner S.D., Nisconen I.S. THE CHARACTER OF ELECTRON ENERGY LOSSES IN HIGH FREQUENCY DISCHARGE PLASMA IN MIXTURES OF MERCURY AND RARE GASES	781
P-1260	Wróński Z., Stachórska D. DISTURBANCE OF PLASMA BY VARIABLE ELECTRIC FIELD	783
P-1261	Zlobina A.F., Koval N.N., Kondratjeva N.P., Kreindel Yu.E., Shanin P.M. BURNING REGIMES OF THE CONSTRICTED ARC WITH A LARGE CROSS-SECTION HOLLOW ANODE	785
P-1262	Zhukov M.F., Anshakov A.S., Dandaron G.-N.B., Zambalaeu Zh.Zh. TEMPERATURE DISTRIBUTION ON THERMOCATHODE	787
P-1263	Zubkov P.I., Luk'anchikov L.A., Nasyrov I.N., Ten K.A. INVESTIGATION OF SHOCK-COMPRESSED ELECTRIC ARC PLASMA	789
P-13	OPTICAL DISCHARGES	
P-1301	Bakos J.S., Földes I.B., Ignácz P.N., Sörlei Zs. SELF-TRAPPING AND SCATTERING OF LIGHT IN LASER PRODUCED SPARK	791
P-1302	Breev V.V., Knizhnikova L.A., Nastoyashchy A.F. ON THE MECHANISM OF INSTABILITY OF THE LONG LASER SPARK PLASMA COLUMN	793
P-1303	Carlhoff C., Krametz E., Mucha Z., Schäfer J.H., Uhlenbusch J. MEASUREMENT OF TEMPERATURE AND FLOW FIELD IN CONTINUOUS OPTICAL DISCHARGES	795
P-1304	Chugunov A.Yu., Nikolaev F.A., Shelobolin A.V. SPACE-TIME DISTRIBUTION IN LONG LASER SPARK-INITIATED ELECTRICAL AIR BREAKDOWN	797
P-1305	Danilychev V.A., Zvorykin V.D., Kholin I.B., Chugunov A.Yu. DETONATION AND RADIATION WAVES IN GASES SUPPORTED BY 10.6 μ m LASER PULSES	799
P-1306	Dembiński M., Kurzyna J., Szymański Z. DECAY AND REIGNITION OF OPTICAL DISCHARGE PLASMA	801
P-1307	Desyatkov G.A., Gurovich V.Ts., Spektorov V.L. ON THE THEORY OF CONTINUOUS OPTICAL DISCHARGE FORMATION	803
P-1308	Karfidov D.M., Lukina N.A., Sergeichev K.F. EMISSION OF HOT ELECTRONS FROM INHOMOGENEOUS PLASMA, CAUSED BY STRONG MICROWAVE FIELD	805

- P-1309 Knyazev B.A., Lebedev S.V.
PLASMA PRODUCTION BY PHOTOIONIZATION OF LASER PRODUCED VAPOUR
CLOUDS IN VACUUM
- P-1310 Konov V.I., Nikitin P.I., Prokhorov A.M.
TURBULENCE IN LASER SPARK CREATED NEAR THE TARGET
- P-1311 Konovalov V.P., Son E.E.
IONIZATION OF MOLECULES IN ELECTRICAL AND LIGHT FIELDS
- P-1312 Mazhukin V.I., Uglov A.A., Chetverushkin B.N.
NUMERICAL SIMULATION OF THE LASER PLASMA DEVELOPMENT NEAR A
METALLIC SURFACE UNDER HIGH PRESSURE
- P-1313 Ursu I., Apostol I., Apostol D., Bărbulescu D., Dabu R.,
Dinescu M., Harsany A.I., Mihailescu I.N., Moldovan M.
SHOCK WAVES INDUCED IN THE AMBIENT ATMOSPHERE BY A LASER SPARK
GENERATED IN FRONT OF METALLIC TARGETS BY MICROSECOND PULSED CO₂
LASER RADIATION
- P-1314 Ursu I., Apostol I., Bărbulescu D., Drăgănescu V.,
Mihailescu I.N., Moldovan M., Morjan I., Prokhorov A.M.,
Ageev V.P., Konov V.I.
METALLIC TARGETS EVAPORATION UNDER THE ACTION OF PULSED HIGH POWER
MICROSECOND CO₂ LASER RADIATION
- P-14 DISCHARGES FOR LASERS
- P-1401 Achasov O.V., Fomin N.A., Soloukhin R.I., Zhdanok S.A.
PLASMA GENERATION IN SUPERSONIC FLOWS OF VIBRATIONALLY NONEQUILIBRIUM
GASES
- P-1402 Babichev V.N., Velikhov E.P., Golubev S.A., Kovalev A.S.,
Pis'mennyi V.D., Rakhimov A.T.
A PERIODIC NON-SELF-SUSTAINED DISCHARGE IN A GAS FLOW
- P-1403 Bertel' I.M., Churakov V.V., Petukhov V.O.,
Stepanov B.I., Trushin S.A.
VIBRATIONAL TEMPERATURE KINETICS IN TEA-CO₂ LASER
- P-1404 Akishev Yu.S., Kozlov A.N., Napartovich A.P., Nichiporuk A.F.,
Trushkin N.I., Pashkin S.V.
EMPLOYING CORRELATION MEASUREMENTS OF FLOW VELOCITIES AND POTENTIALS
FOR STUDYING THE STRUCTURE OF THE ANODE REGION OF HIGHER PRESSURE
GLOW DISCHARGE
- P-1405 Burtsev V.A., Kondakov A.A., Kurunov R.F., Lebedev N.Yu.,
Smirnov V.G., Shansky V.F.
EXPERIMENTAL STUDY OF THE INSTABILITY OF THE SEMI-SELF-SUSTAINED
DISCHARGE
- P-1406 Dem'yanov A.V., Dyatko N.A., Kochetov L.V., Napartovich A.P.,
Pal' A.F., Pevgov V.G., Perevoznov A.F., Persiantsev I.G.
EXPERIMENTAL AND THEORETICAL STUDY OF THE INSTABILITY OF NON-SELF-
SUSTAINED DISCHARGE IN MIXTURES OF HCl WITH INERT GASES
- P-1407 Dresvyannikov V.G., Fisun O.I.
COLLAPSE OF PLASMA CURRENT IN "RUNAWAY" REGIME FOR E-BEAM-SUSTAINED
KrF* DISCHARGES
- P-1408 Dutov A.I., Nikolaev V.B., Yuriev M.S.
DISTRIBUTIONS OF IONIZATION LOSSES, ELECTRON CONCENTRATION AND
ELECTRIC FIELD IN E-BEAM-CONTROLLED DISCHARGE

P-1409	Dymshits Yu.I., Neverov V.G. PRIMARY COMPOSITION OF PLASMA OF WORKING MEDIUMS EMPLOYED IN ELECTRON-BEAM-PUMPED GAS LASERS	835
P-1410	Fournier G., Bonnet J., David D., Pigache D. EXCITATION OF SINGLET OXYGEN AT ATMOSPHERIC PRESSURE	837
P-1411	Gadiyak G.V., Schweigert V.A. NUMERICAL MODELING OF NON-SELF-MAINTAINED DISCHARGE IN OWN MAGNETIC FIELD	839
P-1412	Glova A.F., Golubev V.S., Lebedev F.V. STABILITY OF AC-DISCHARGE IN NITROGEN UNDER SUB-ATMOSPHERIC PRESSURES	841
P-1413	Gudelev V.G., Jasinskii V.M. RADIATION GAIN DISTRIBUTION ALONG He-Ne GAS DISCHARGE POSITIVE COLUMN	843
P-1414	Gurevich D.B., Kanatenko M.A., Podmoshensky I.V. THE SELF-SUSTAINED VOLUMETRIC GAS DISCHARGE WITH RADIONUCLIDE PREIONIZATION	845
P-1415	F.J. de Hoog, T.J.H. de Groot, Th.J. Bisschops, W.L.H. van Deursen, E.M. van Veldhuizen MASS-SPECTROSCOPIC INVESTIGATIONS ON SELF-SPUTTERING IN A HOLLOW CATHODE LASER DISCHARGE	847
P-1416	Ivanchenko A.I., Shepelenko A.A. TWO-DIMENSIONAL PICTURE OF THE ELECTRIC FIELD OF A GLOW DISCHARGE IN NITROGEN FLOW	849
P-1417	Korukhov V.V., Nikulin N.G., Troshin B.I. EXPERIMENTAL STUDY OF LEVEL INVERSION POPULATION OF K-IONS OF OXYGEN IN A LASER PLASMA	851
P-1418	Karnyushin V.N., Samtsov P.P. GLOW DISCHARGE INITIATION AND IGNITION IN DENSE GASES	853
P-1419	Lobanov A.N., Londer J.I., Menahin L.P., Ulyanov K.N. CATHODE SHEATH DYNAMICS IN A NON-SELF-SUSTAINED DISCHARGE	855
P-1420	Losev V.F., Tarasenko V.F. AN ELECTRON-BEAM STABILIZED DISCHARGE IN THE (Ar, Kr, Ne):Xe:CCl ₄ MIXTURES	857
P-1421	Luches A., Nassisi V., Perrone A., Perrone M.R. TIME RESOLVED STUDY OF THE 427.5 nm RADIATION IN Kr AND Kr-SF ₆ MIXTURES FOLLOWING INTENSE E-BEAM EXCITATION	859
P-1422	Miljević V. LASER TRANSITIONS IN AN ARGON PLASMA IN CROSSED ELECTRIC AND MAGNETIC FIELDS	861
P-1423	Muratov E.A., Ozerenko A.A., Pulinets T.S., Rakhimov A.T., Saenko V.B. ON THE POSSIBILITY OF IMPROVING THE EFFICIENCY OF PHOTOIONIZATION OF GASEOUS MEDIA	863
P-1424	Pigache D., Bonnet J., Fournier G. A SECONDARY EMISSION ELECTRON GUN FOR HIGH PRESSURE GAS LASERS AND PLASMA CHEMICAL REACTORS	865
P-1425	Stańco J., Milewski J., Wawrzyńczyk P. EXPERIMENTS WITH RF STABILIZATION OF LARGE-VOLUME DC DISCHARGE FOR CO ₂ LASERS	867

- P-1426 Vainer V.V., Ivanov I.G., Sem M.F.
ELECTRON ENERGY DISTRIBUTION IN HOLLOW CATHODE DISCHARGE AND RARE GAS-METAL VAPOR MIXTURE EXCITATION
- P-1427 Vladimirov V.V., Gorshkov V.N., Shchedrin A.I.
EFFECT OF PLASMA CURRENT'S OWN MAGNETIC FIELD ON THE CHARACTERISTICS OF NON-SELF-MAINTAINED DISCHARGE INDUCED BY AN ELECTRON BEAM
- P-1428 Volchenok V.I., Komarov V.N., Kupriyanov S.E., Stukanog V.I., Ochkin V.N., Sobolev N.N.
SPATIAL INHOMOGENEITY OF CHEMICAL COMPOSITION IN SEALED CO₂ LASER PLASMAS
- P-1429 Zemtsov Yu.K., Klopovsky K.S., Muratov E.A., Ozerenko A.A., Pulinets T.S., Rakhimov A.T., Saenko V.B.
THE NON-SELF-SUSTAINED DISCHARGE IN MOLECULAR MIXTURE CONTAINING CO₂ USING THE PHOTOIONIZATION OF GASEOUS, READILY IONIZED ADDITIVES
- P-15 GENERATION AND DYNAMICS OF PLASMA FLOWS
- P-1501 Akseyonov I.I., Padalka V.G., Repalov N.S., Khoroshikh V.M.
PLASMA FLUX MOTION IN A TOROIDAL PLASMA OPTICAL SYSTEM
- P-1502 Astashinsky V.M., Bakanovich G.I., Min'ko L.Ya.
INVESTIGATION OF COMPRESSION PLASMA FLOWS AND THEIR INTERACTION WITH A TARGET
- P-1503 Belan N.V., Mashtylev N.A.
TRANSIENT PROCESSES IN DISCHARGE CIRCUITS OF PULSED PLASMA ACCELERATORS
- P-1504 Bel'chenko Yu.I., Dudnikov V.G.
A SURFACE-PLASMA SOURCE OF NEGATIVE HYDROGEN IONS WITH AN EXTENDED EMITTING SURFACE
- P-1505 Belorusov A.V., Gorbunova E.F., Karchevsky A.I., Muromkin Yu.A., Ustinov A.L.
EXPERIMENTAL RESEARCH OF HELIUM AND NEON ISOTOPE SEPARATION IN A PULSED HYDROGEN PLASMA CENTRIFUGE
- P-1506 Borzenko V.P., Koroteev B.I., Mikhalev A.V., Parshutkin S.V.
OPTICAL SPECTRAL INVESTIGATIONS OF LOW-FREQUENCY PLASMA OSCILLATIONS IN THE SDA DUCT
- P-1507 Chutov Yu.I., Chernyak V.Ya., Oleynik V.S.
THE PHYSICAL PROCESSES IN NITROGEN-CESIUM PLASMA JET
- P-1508 Gerasimov V.P., Dmitriev S.P., Khodnenko V.P., Latishev L.A., Pertsev A.A., Romanovsky Yu.A., Shishkin G.G., Smirnov S.A., Trifonov Yu.V.
INVESTIGATION OF THE LF AND HF OSCILLATIONS IN THE E-H ACCELERATOR PLASMA JET AT THE LABORATORY AND ONBOARD THE "METEOR" SATELLITE
- P-1509 Kim V.
ANALYSIS OF ELECTRON TRANSPORT MECHANISMS ACROSS THE MAGNETIC FIELD AND GENERATION OF LOW FREQUENCY OSCILLATIONS IN THE ACCELERATOR WITH CLOSED ELECTRON DRIFT
- P-1510 Kniasev I.V., Pertsev A.A., Smolin G.G., Tichonov V.B.
THE MECHANISM OF EXCITATION OF IONIC-SONIC OSCILLATIONS IN HIGH CURRENT PLASMA ACCELERATOR
- P-1511 Luk'yanov G.A., Pavlova N.O., Zhinzhiikov G.M.
NONEQUILIBRIUM PHENOMENA IN RAPIDLY EXPANDING PLASMA FLOWS

P-1512	Romanov G.S., Stankevitch Yu.A., Teterev A.V., Urban V.V. NUMERICAL INVESTIGATION OF RADIATIVE PROCESSES IN UNSTEADY PLASMA FLOWS	899
P-1513	Chutov Yu.I., Zhovtyansky V.A., Kravchenko A.Yu., Berko V.I. THE RELAXATION OF EXPANDING PLASMA	901
P-1514	Sidnev V.V., Skvortsov Yu.V., Solovyeva V.G., Umrikhin N.M. A PULSED SOURCE OF PLASMA WITH THE FLUX VELOCITY OF 10^8 cm/s AND ENERGY UP TO 100 kJ	903
P-1515	Ruzhin Yu.Ya., Skomarovsky V.S., Shvetsov G.A. CUMULATIVE PLASMA INJECTORS IN SPACE RESEARCH	905
P-1516	Tereshin V.I., Chebotaryov V.V., Shevchuk B.A., Jakubovskij V.G., Rastrepin A.B. STUDIES OF A PLASMA FROM A COAXIAL PLASMA GUN BY ELASTICALLY SCATTERED PROBING NEUTRAL BEAM	907
P-1517	Zackrevsky N.V., Luk'yanov G.A., Tserkovnyi S.I. KINETICS OF THE HELIUM LEVEL POPULATION IN PLASMA FLOW	909
P-16	OPTICAL PHENOMENA AND PLASMA EMISSION	
P-1601	Borovick F.N., Elyashevitch M.A., Cascova S.I., Romanov G.S., Stepanov K.L., Syrkin M.Y., Tolkach V.Y. OPTICAL PROPERTIES OF ALUMINIUM PLASMA	911
P-1602	Kupliauskiene A.V., Kupliauskis Z.J. DIELECTRONIC SATELLITES IN THREE-ELECTRON IONS	913
P-1603	Lakićević I.S., Purić J. STARK WIDTHS AND SHIFTS SYSTEMATIC TRENDS	915
P-1604	Lavrov B.P., Prosihin V.P., Tjutchev M.V. EMISSION PROPERTIES OF CAPILLARY-ARC LIGHT SOURCES	917
P-1605	Mihajlov A., Djordjević D., Popović M.M. EMISSION AND ABSORPTION OF THE CONTINUOUS RADIATION IN ION-ATOMIC COLLISIONS	919
P-1606	Nishin G.I., Serov Yu.L., Yavor I.P. INVESTIGATION OF THE HYPERSONIC WAKE PLASMA BEHIND THE ABLATING SPHERE	921
P-1607	Musa G., Popescu A., Baltog A., Nastase I., Niculescu N., Mustata I., Cormos A., Lungu C.P. He ADDITION INFLUENCE ON THE CHARACTERISTICS OF A PLASMA DISPLAY	923
P-1608	Oks E.A., Gavrilenko V.P. NEW RESONANCE EFFECT OF HYDROGEN LINES STARK SPLITTING	925
P-1609	Purić J., Lakićević I. STARK WIDTH AND SHIFT PERIODIC DEPENDENCE ON NUCLEAR CHARGE NUMBER	927
P-1610	Pokleba A.K., Safronova U.I. Z-DEPENDENCE OF LINE INTENSITIES FOR $2s^2 2p^3$ - $2S 2p^4$ - $2p^5$ TRANSITIONS	929
P-1611	Suganomata S., Matsuzawa H. ENHANCED PHOTOEMISSION DURING CURRENT DECAY IN LOW PRESSURE CF_4 DISCHARGE	931

- P-1612 Suzumura K., Ohno T., Ikuda T.
MULTI-PHOTON IONIZATION OF EXCITED ATOMS IN IONIZED GASES
- P-1613 Tolstolutskiy A.G., Zolototrubov I.M., Zykov V.G.,
Novikov Yu.M., Skoblik I.P.
THE SPECTRA RADIATION OF DENSE PLASMA AT THE OUTPUT OF THE
PULSE COAXIAL ACCELERATOR
- P-1614 Trommer G.
THE ARGON RESONANCE CONTINUUM BETWEEN 50 nm AND 78 nm
- P-1615 Vanmarcke M., Wieme W.
RADIATION IMPRISONMENT OF VOIGT-BROADENED LINES. DEVIATIONS
FROM HOLSTEIN'S THEORY
- P-1616 Vdovin V.G., Vdovina N.A., Shuvatova O.V.
THE CALCULATION OF NONEQUILIBRIUM POPULATION OF THE ATOM EXCITED
STATES IN METAL HALID DISCHARGE TAKING INTO ACCOUNT ION-MOLECULAR
REACTIONS
- P-1617 Vinogradov A.V.
CONDITIONS FOR APPLICABILITY OF THE LOW FREQUENCY APPROXIMATION
IN THE PROBLEM OF ONE PHOTON BREMSSTRAHLUNG
- P-1618 Zhukov M.F., Lukashov V.P., Pozdnyakov B.A., Shcherbik N.M.
RADIATION FROM AIR AND NITROGEN ARCS IN PLASMOTRONS
- P-17 DIAGNOSTIC METHODS
- P-1701 Akhmeddzanov R.A., Khanin Ya.I., Polushkin I.N., Yazenkov V.V.
INVESTIGATION OF THE GAS DISCHARGE POSITIVE COLUMN IN NEON BY THE
METHOD OF RESONANCE LASER FLUORESCENCE
- P-1702 Alayli Y.
THOMSON AND RAYLEIGH SCATTERING IN SULPHUR HEXAFLUORIDE
- P-1703 Alayli Y.
INFLUENCE OF THE MOMENTUM TRANSFER ON THE RAYLEIGH SCATTERING
ANGULAR DISTRIBUTION
- P-1704 Aleksandrov Y.M., Gippius E.F., Jakimenko M.N., Kolesnikov V.N.,
Lunin N.V., Mahov V.N., Shpigel I.S., Syrejtshikova T.I.
SPECTRAL EFFICIENCY OF THE VACUUM MONOCHROMATOR LHT-30 WITH HOLOGRAPHIC
GRATING IN THE REGION 15-160 nm
- P-1705 Altyntsev A.T., Krasov V.I., Lebedev N.V., Paperny V.L.,
Simonov V.G.
A PINHOLE CAMERA FOR OBSERVATION OF SOFT X-RAY EMISSION SOURCES
- P-1706 Aravin G.S., Karasevich Yu.K., Vlasov P.A., Pankrat'eva I.L.,
Polyanskii V.A.
USE OF ELECTRIC PROBES FOR STUDYING THE PARAMETERS OF A DENSE UNSTEADY
PLASMA WITH CHEMICAL REACTIONS
- P-1707 Asanaliev M.K., Engelsht V.S., Pakhomov E.P., Samsonov M.A.,
Yartsev I.M., Zheenbaev Zh.Zh.
MEASUREMENT OF COEFFICIENT OF SPHERE AERODYNAMIC DRAG IN ARGON PLASMA
- P-1708 Asinovsky E.I., Markovets V.V., Samoilov I.S., Ulianov A.M.
SYNCHRONIZED PHOTOGRAPHING IN FRAMES OF NANOSECOND DISCHARGE BY MEANS
OF IMAGE CONVERTER
- P-1709 Behir L.P., Belyakov Yu.M., Elov V.V., Evlampiev A.V.,
Levashenko G.I., Tamanovich V.V.
DETERMINATION OF THE ACTIVE MEDIUM PARAMETERS OF CO₂-FLOW LASERS BY
INFRARED SPECTROSCOPY

P-1710	Bardinov A.A., Burtsev V.A., Kubasov V.A., Litunovsky V.N., Lyublin B.V.	
	DIAGNOSTIC SETUP FOR SIMULTANEOUS STUDY OF COHERENT AND NON-COHERENT LASER SCATTERING IN A FAST θ -PINCH DENSE PLASMA	965
P-1711	Berezin A.B., Burtsev V.A., Smirnov V.G.	
	STUDY OF THE TURBULENT DENSE PLASMA USING THE COHERENCE CHANGE OF THE PROBING LASER RADIATION	967
P-1712	Borisevich N.A., Gruzinskii V.V., Suchkov V.A.	
	LASER DIAGNOSTICS OF COMPLEX MOLECULE VAPORS IN PULSING ELECTRIC DISCHARGE	969
P-1713	Brizhinev M.P., Egorov S.V., Eremin B.G., Kostrov A.V., Oks E.A., Shagiev Yu.M.	
	INVESTIGATION OF PLASMA TURBULENCE IN THE INTENSE ELECTROMAGNETIC WAVE FIELD BY HYDROGEN LINES BROADENING	971
P-1714	Bogdanov S.Yu., Dreiden G.V., Frank A.G., Khodzhaev A.Z., Komissarova I.I., Markov V.S., Ostrovskaya G.V., Ostrovsky Yu.I., Philippov V.N., Shedova E.N.	
	CINEHOLOGRAPHIC STUDY OF THE ELECTRON DENSITY REDISTRIBUTION IN THE PROCESS OF EXPLOSIVE DISRUPTION OF THE CURRENT SHEET	973
P-1715	Chirkov V.A., Ilyukhin A.A., Koloshnikov G.V., Kramida A.E., Peregudov G.V., Plotkin M.E., Ragozin E.N.	
	APPLICATION OF THE POPULATION DENSITY MEASUREMENTS OF H-LIKE IONS ENERGY LEVELS FOR DETERMINATION OF ELECTRON TEMPERATURE IN LASER PRODUCED PLASMAS	975
P-1716	Czekaj S., Koziarkiewicz W., Skrzeczanowski W., Socha R.	
	SPECTRAL INVESTIGATIONS OF IMPURITY RADIATION IN THE 60 kJ PLASMA- FOCUS DEVICE	977
P-1717	Desoppere E., G. Van Oost	
	COMPACT, FLEXIBLE AND FULLY AUTOMATIC 90° THOMSON SCATTERING SYSTEM FOR THE MEASUREMENT OF ELECTRON TEMPERATURE AND DENSITY PROFILES IN THE ERASMUS TOKAMAK	979
P-1718	Golubev A.V., Tishchenko E.A., Vakar A.K., Krashenninnikov E.G.	
	ELECTRON DENSITY AND EFFECTIVE COLLISION FREQUENCY MEASUREMENTS IN CO ₂ UHF-DISCHARGE BY MICROWAVE DIAGNOSTIC TECHNIQUES	981
P-1719	Golubovsky Yu.B., Telezhko V.M.	
	THE INVESTIGATION OF THE GLOW DISCHARGE IN NITROGEN BY HOLOGRAPHIC INTERFEROMETRY	983
P-1720	Gerasimov G.N., Maleshin M.N., Petrov S.Ya.	
	MOLECULAR IONS IN AFTERGLOW OF INERT GASES: SPECTROSCOPIC MANIFESTATION AND METHOD OF REGISTRATION	985
P-1721	Gryaznova T.A., Ivanchinov N.N., Karplyuk K.S., Pilonenko E.G., Shashurin I.P., Zakkis E.I., Yevgraphov I.A.	
	INVESTIGATIONS INTO THE USE OF SEMISPHEROIDAL ANTENNA AS A MICROWAVE PROBE FOR DIAGNOSING PLASMA	987
P-1722	Iwama N., Inoue A., Tsukishima T., Sato M., Kawahata K., Sakai K.	
	MAXIMUM ENTROPY SPECTRAL ESTIMATION PROCEDURE FOR FOURIER SPECTROSCOPY AND ITS APPLICATION TO THE ELECTRON CYCLOTRON EMISSION FROM A HIGH TEMPERATURE PLASMA	989
P-1723	Kažys R.-J., Milius P.-B., Butkus J.	
	ULTRASONIC MEASURING SYSTEM FOR THE DETERMINATION OF THERMAL FLUCTUATIONS IN A GAS-DISCHARGE FLOW	991
P-1724	Gryaznova T.A., Karplyuk K.S., Malyuk L.A., Olenskii V.N., Shashurin I.P.	
	PLASMA INHOMOGENEITY INFLUENCE ON SEMISPHERICAL MICROWAVE PROBES CHARACTERISTICS	993
P-1725	Kononov E.Ya., Koshelev K.N., Sidelnikov Yu.V.	
	X-RAY SPECTROSCOPIC DIAGNOSTICS OF MICROPINCH IN LOW INDUCTANCE VACUUM SPARK	995
P-1726	Margolin L.Ya., Polynovskaya N.Ya., Pyatnitskii L.N., Edel'man S.A.	

- PROCEDURE OF THE RESONANCE FLUORESCENCE CROSS-SECTION MEASUREMENT IN PLASMA
- P-1727 Meierovich B.E.
PAIR PRODUCTION - A TOOL FOR SUPERDENSE PLASMA DIAGNOSTICS
- P-1728 Matsumoto K., Sato M.
STOCHASTIC TREATMENT FOR THE NOISE EFFECT ON THE PROBE CHARACTERISTIC
- P-1729 Melnikova T.S., Pickalov V.V.
RADON INVERSION IN DYNAMIC STUDIES OF ASYMMETRICAL ARC TEMPERATURE FIELDS
- P-1730 Meibus P.
(I,II) A STUDY OF TRANSIENT CONDITIONS IN PLASMAS USED FOR VELOCITY DISTRIBUTION DETERMINATION
- P-1731 Minin V.V., Tretyakov V.E., Yatsenko B.P.
INVESTIGATION OF EXTERNALLY SUSTAINED DISCHARGE PLASMA ELECTROKINETIC PARAMETERS USING BREMSSTRAHLUNG CONTINUUM
- P-1732 Nazarenko L.A., Bernshtam V.A., Lubchik L.M., Rivtzis A.C.
ABOUT ONE METHOD OF DETERMINATION OF THE ELECTRON VELOCITY DISTRIBUTION FUNCTION IN NONEQUILIBRIUM PLASMA
- P-1733 Poponin V.P., Pyatnitsky L.N., Shternov N.P.
POLARIZATION AND SPECTRUM OF LIGHT SCATTERED BY UNMAGNETIZED RELATIVISTIC ELECTRON BEAMS
- P-1734 Poponin V.P., Pyatnitsky L.N., Skvortsov V.A.
ELECTROMAGNETIC WAVE SCATTERING FROM ION-ACOUSTIC SOLITONS
- P-1735 Peskov V.D.
COMPLEX PLASMA DIAGNOSTICS IN VUV AND X-RAYS BY MEANS OF COORDINATE GAS DETECTORS
- P-1736 Pyatnitskii L.N., Fonkin V.A., Yakushev G.G.
HIGH SENSITIVITY LASER INTERFEROMETER FOR THE STUDY OF PLASMAS
- P-1737 Radtke R., Günther K.
INVESTIGATION OF THE BALMER SPECTRUM EMITTED BY A HIGH-DENSITY HYDROGEN ARC
- P-1738 Vasilieva I.A.
EFFECT OF CONDENSED PHASE ON CONTOUR OF SPECTRAL LINES RADIATED BY LOW-TEMPERATURE PLASMA
- P-1739 Timmermans C.J., Schellekens P.H.J., Kroesen G.M.V., Schram D.C.
A PHASE QUADRATURE FEEDBACK INTERFEROMETER WITH A FREQUENCY STABILIZED TWO MODE He-Ne LASER
- P-1740 E.M. van Veldhuizen, F.J. de Hoog
SPECTRALLY AND SPATIALLY RESOLVED OPTOGALVANIC EFFECT IN A NEON HOLLOW CATHODE DISCHARGE WITH A SINGLE FREQUENCY RING DYE LASER
- P-1741 Zakharov S.M., Kolomensky A.A., Pikus S.A., Samokhin A.I., Skobelev I.Yu., Paenov A.Ya.
EXPLODED-WIRE PLASMA DENSITY MEASUREMENTS BY RELATIVE INTENSITIES OF RESONANCE LINE SATELLITES OF HYDROGEN-LIKE IONS
- P-1742 Zatsepin V.G., Golubev A.V.
DETERMINATION OF THE LOCAL VALUES OF RADIATIVE TEMPERATURE AND ABSORPTION COEFFICIENT IN PLASMA COLUMN USING SIDE-ON DISTRIBUTIONS OF SUBMILLIMETER EMISSION
- P-1743 Zelenov L.A., Kurunov R.F., Ratkevich V.K., Smirnov V.G.
USE OF HOLOGRAPHIC METHODS TO STUDY LASER ACTIVE MEDIUM
- AUTHOR INDEX