

CONFERENCE PROGRAM

Thursday November 5th 2014

TIME	REPORT
10:00	OPENING
10:30	S. Pikuz, I. Skobelev, A. Fayenov, T. Pikuz, N. Nagorsky, M. Alkhimova <i>X-ray imaging and spectroscopic diagnostics for investigations of high energy density matters.</i>
11:00	A. Dushina, D. Korniyenko, A. Kravchenko, V. Lazarchuk, D. Litvin, V. Mis'ko, A. Rukavishnikov, A. Senik, K. Starodubtsev, V. Tarakanov, A. Chaunin <i>SER-7 multi-shot optical X-ray streak camera and techniques of high-speed process registration on its basis</i>
11:20	Ye. Grabovsky, V. Dzhangobegov, G. Oleynik <i>Investigation of initial implosion stage of wire and fiber liners at Angara-5-1 facility</i>
11:40	COFFEE BREAK
12:00	D. Korniyenko, A. Kravchenko, D. Litvin, V. Mis'ko, A. Rukavishnikov, A. Senik, K. Starodubtsev, V. Tarakanov, A. Chaunin <i>Technique of X-ray radiation transport time measurement in closed cavities and in thermal breakdown regime</i>
12:20	N. Romashkina, A. Muntyan, S. Petrov, S. Taran <i>Low-temperature metal plasma and fusion plasma dust particle analysis</i>
12:40	D. Malakhov, N. Skvortsova, D. Vasil'kov, V. Smirnov, B. Tedtoyev, A. Gorshenin, A. Chernousov <i>Hardware-software techniques of data retrieval for plasma experiments (using creation of a new complex for L-2M stellarator as an example)</i>
13:00	LUNCH BREAK
14:00	Kuznetsov A.P. <i>Quadrature laser interferometry in pulsed plasma diagnostics</i>
14:30	N.N. Skvortsova, D.V. Malakhov, A.A. Kharchevski, A.Y. Chirkov, V.Y. Korolev, A.K. Gorshenin <i>Investigation of gradient instabilities in L-2M stellarator plasma using Doppler reflectometry technique</i>
14:50	A.N. Chumakov, N.A. Bosak, A.V. Panina <i>Plasma parameter and spectral analysis response management under bichromatic laser impact on gas materials</i>
15:10	I.S. Nikonchuk, A.N. Chumakov <i>Pulsed plasma diagnostics with consideration of reabsorption using digital video camera</i>
15:30	COFFEE BREAK
15:50	V.K. Goncharov, K.V. Kozadaev, E.P. Mikitchuk, A.G. Novikov <i>Complex optical diagnostics of laser-induced plasma formations</i>
16:10	D.G. Vasilkov, S. A. Maslov, Y.V. Kholnov, N.N. Skvortsova <i>Wavelet analysis of edge plasma fluctuations in L-2M stellarator</i>
16:30	G.M. Batanov, V.D. Borzosekov, L.D. Iskhakova, L.V. Kolik, E.M. Konchekov, A.A. Letunov, D.V. Malakhov, F.O. Milovich, E.D.Obraztsova, E.A. Obraztsova, A.E. Petrov, I.G. Ryabikina, K.A. Sarksyanyan, V.D. Stepakhin, N.K. Kharchev, N.N. Skvortsova <i>Technique of micro- and nanoparticle synthesis in microwave gyrotron-initiated discharge</i>

Thursday November 6th 2014

TIME	REPORT
10:00	V.V. Aleksandrov, E.V. Grabovski, A.N. Gritsuk, I.G. Malyutin, K.N. Mitrofanov, G.M. Oleinik <i>Experimental investigation of Z-pinch radiation spectra at ANGARA-5-1 facility</i>
10:30	E.D. Vovchenko, K.I. Kozlovski, A.E. Shikanov <i>Research technique for processes of acceleration of ions extracted from laser plasma in a diode with magnetic insulation of electrons</i>
11:00	N.A. Mustafin, A.V. Sushkov <i>Application of multi-wire proportional X-ray detector in T-10 tokamak experiments</i>
11:20	G.M. Asadulin, I.S. Belbas, A.V. Gorshkov <i>Development of Thompson scattering tangential diagnostic system for T-15 facility</i>
11:40	Coffee Break
12:00	V.A. Tokarev, N.A. Khromov <i>Investigation of edge plasma using sliding Langmuir probe at GLOBUS-M tokamak</i>
12:20	D.S. Lapitski <i>Microparticle charge determination using end cap linear Paul trap</i>
12:40	V.S. Neverov, A.B. Kukushkin, A.G. Alekseev <i>Balmer-Alpha interpretation method of high-resolution spectroscopy for edge plasma in tokamak with consideration of scattered diverter light</i>
13:00	LUNCH BREAK
14:00	G. Van Oost <i>ADVANCED PROBES FOR BOUNDARY PLASMA DIAGNOSIS IN FUSION DEVICES</i>
14:20	G.F. Avdeeva, I.V. Miroshnikov <i>CXRS measurements of ion temperature in NBI discharges at GLOBUS-M spherical tokamak</i>
14:40	L.A. Kluchnikov, N.N. Naumenko, V.A. Krupin, V.I. Troinov, K.V. Korobov, S.N. Tugarinov, A.R. Nemets, F.V. Fomin, M.R. Nurgaliev, D.S. Denshikov <i>Modernized T-10 tokamak CXRS diagnostics. Ion temperature pattern measurements</i>
15:00	M.R. Nurgaliev, V.A. Krupin, L.A. Kluchnikov, K.V. Korobov, A.R. Nemets, A.V. Gorbunov, V.I. Troinov, F.V. Fomin, D.S. Denshikov <i>Measurement of additive nuclei concentration pattern using modernized T-10 tokamak CXRS diagnostics</i>
15:20	Coffee break
15:40	A.M. Zimin, V. A. Krupin, V.I. Troinov, L.A. Kluchnikov <i>Deuterium molecule radiation registration at T-10 tokamak</i>
16:00	B. Chektybaev, G. Shapovalov <i>Imaging system of plasma thread at KTM tokamak. Design and preliminary experimental results</i>
16:20	S.Y. Donetski, D.V. Sarychev <i>Application of radiation loss detectors for studying regimes with different additive confinement at T-10 tokamak</i>
16:40	L.I. Ognev, V.S. Lisitsa <i>Problem of edge plasma spectra registration in the face of powerful backscattered diverter radiation</i>
17:00	Posters

Friday November 7th 2014

TIME	REPORT
10:00	P.A. Chizhov, V.V. Bukin, S.V. Garnov Diagnostics of plasma channel of femtosecond filament using interferometry method
10:30	E.O. Baronova, A.M. Stepanenko Capillary discharge-based check source
11:00	D.B. Zolotukhin, V.A. Burdovitsin Beam plasma parameters in dielectric cavity in forevacuum pressure zone
11:20	A.A. Ionin, I.O. Kinyaevski, Y.M. Klimachev, A.Y. Kozlov, A.A. Kotkov Investigation of vibration kinetics of nitrogen oxide molecules under excitation with pulsed electro-ionized discharge
11:40	Coffee break
12:00	R.A. Syrovatka, V.I. Vladimirov, L.V. Deputatova, D.S. Lapitski, V.Y. Pecherkin Determination of single microparticle parameters in linear electrodynamic trap
12:20	A.A. Airapetov, L.B. Begrambekov, A.V. Grunin, A.E. Evsin, A.S. Kaplevski Material probe for WEST tokamak
12:40	G.V. Krashevskaya, Y.A. Lebedev, M.A. Gogoleva Spatial parameter distribution of electronic component of electrode microwave discharge nitrogen plasma
13:00	LUNCH BREAK
14:00	M.Y. Pustynnik, A.V. Ivlev, N. Sadegkhi, R. Khaidemann, S. Mitich, K.M. Tomas, G.E. Morfill Optogalvanic instability management in dust plasma
14:30	Y.M. Klimachev Low temperature plasma diagnostics using CO laser radiation (5,0-7,5 micron)
14:50	L.N. Vyacheslavov, A.A. Kasatov, A.S. Arakcheev, I.A. Ivanov, A.A. Shoshin, A.V. Burdakov, I.V. Kandaurov, V.V. Kurkuchekov, K.I. Mekler, D.E. Gavrilenko, A.F. Rovenskikh, Y.A. Trunev Observations of metal erosion under heating with long-duration pulsed electron beam
15:10	V.M. Trukhin, D.V. Ryzhakov, E.A. Shestakov Digital processing of semiconductor X-ray detector signals
15:30	Coffee break
15:50	A.N. Dolgov, V.G. Markov, I.A. Kanyshin, D.E. Prokhorovich, A.G. Sadilkin, I.V. D.V. Kolodko Diagnostic complex for studying corpuscular flux dynamics in ion-optical system of neutron tube
16:10	L.M. Vasilyak, S.V. Kostyuchenko, N.N. Kudryavtsev, V.A. Levchenko, Y.E. Shunkov Experimental investigation of ultra-violet radiation generation with low-pressure gas-discharge lamps under pressure of buffer gas less than 1 torr
16:30	I.Y. Skobelev, A.Y. Faenov, T.A. Pikuz, N.M. Nagorski, S.A. Pikuz X-ray spectrometry diagnostics of laser-cluster interaction
16:50	Discussion

POSTERS

1	D.V. Yanin, A.G. Galka, A.V. Kostrov, A.I. Smirnov, A.V. Strikovski Resonant near-field microwave-frequency diagnostics of plasma and other material media
2	D.L. Kirko, A.S. Savelov Formation of plasma in magnetic field following the discharge in electrolyte
3	V.A. Urusov Restoration of energy spectra under condition of dependence of energy distribution on angular distribution at electrostatic spectrometer input
4	S.V. Korolev Correct techniques of plasma diagnostics
5	A.V. Balovnev, I.V. Vizgalov, G.K. Salakhutdinov Application of filter method for diagnostics of secondary electron emission in self-induced oscillation regime of beam plasma discharge
6	F.F. Kadyrov Deposition of biocompatible bactericidal coating on the surface of endoprosthesis of coxofemoral joint
7	O.A. Bashutin, A.S. Savelov Spectro-polarimetric investigations of nonthermal electron beams in vacuum spark discharge
8	S.V. Serov, S.N. Tugarinov, M. von Hellermann, L.A. Klyuchnikov, V.A. Krupin Modeling and processing of active spectroscopy spectra at T-10 facility
9	O.B. Ananin, O.A. Bashutin, G.S. Bogdanov, E.D. Vovchenko, I.A. Gerasimov, Y.M. Dvoeglazov, A.P. Melekhov, A.S. Savelov, I.F. Raevski, E.D. Filippov Interferometric system for imaging of high-speed laser plasma processes
10	M.A. Alkhimova, O.B. Ananin, G.S. Bogdanov, E.D. Vovchenko, A.P. Melekhov, R.Sh. Ramakoti, A.S. Savelov Source of X-ray radiation and multi-discharge ions on the basis of laser ignition vacuum discharge
11	N.V. Mamedov, D.N. Sinelnikov, D.V. Kolodko, N.A. Soloviev, A.I. Kalinenkov, V.A. Kurnaev, O.L. Vaisberg, A.Y. Shestakov, D.A. Moiseenko, R.N. Zhuravlev Laboratory tests of "ARIES-L" device's neutral particle converter
12	O.B. Ananin, G.S. Bogdanov, I.A. Gerasimov, A.P. Kuznetsov, A.P. Melekhov, V. Pirog Application of thin plasma layer for smoothing spatial structure of powerful laser radiation
13	V.V. Vikhrev, S.V. Suslin Investigation of fluxes of energy and matter in plasma focus facilities
14	E.I. Dodulad, V.A. Kostyushin, A.S. Savelov Determination of density of plasma emitted by microinch discharge using complex corpuscular diagnostics
15	E.A. Mesheryakova, M.S. Zibrov, G.V. Khodachenko Measurement of high-frequency induction discharge plasma parameters
16	M.M. Kharkov, A.V. Kaziev, G.V. Khodachenko Optical registration of structural inhomogeneities of pulsed magnetron discharge
17	I.A. Sorokin, I.V. Vizgalov In situ analysis of ion composition of magnetized plasma