Conference schedule

Conference Hall



Monday	, July 5	
08.30-09.30		Registration
09.30-09.50		Opening of the Conference
09.50 -11.20		Chairman: A.A.Ivanov
09.50	T.Imai	Status and Plan of GAMMA 10 Tandem Mirror Program
10.35	E.P.Kruglyakov	Novosibirsk Mirrors: Past, Present and Future
11.20-11.40		Coffee break
11.40 -12.40		Chairman: T.Imai
11.40	M.Tuszewski	Combined FRC and Mirror Plasma Studies in the C-2 Device
12.00	J.K.Anderson	Majority Ion Heating by Neutral Beam Injection and Confinement of Fast Ions in the Madison Symmetric Torus Reversed Field Pinch
12.20	R.Ellis	The Maryland Centrifugal Experiment: Centrifugal Confinement and Velocity Shear Stabilization of Plasmas in Shaped Open Magnetic Systems
12.4013.00		Photographing
13.0014.00		Lunch
14.00 -15.50		Chairman: M.Tuszewski
14.00	P.A.Bagryansky	Confinement of Hot Ion Plasma with β =0.6 in the Gas Dynamic Trap
14.35	T.C.Simonen	Extrapolation of GDT Results to a Neutron Source for Fusion Materials Testing
15.10	A.Yu.Chirkov	Plasma Kinetics Models for Fusion Systems Based on the Axially-Symmetric Mirror Devices
15.30	T.D.Akhmetov	Possible Further Steps for Upgrading the GDT Device
16.0016.20		Coffee break
16.20 -17.40		Chairman: A.V.Arzhannikov
16.20	A.Ando	Measurement of a Super-Alfvénic Plasma Flow Passing through a Diverging Magnetic Field
16.40	I.A.Kotelnikov	Equilibrium of High- β Plasma with Sloshing Ions above the Mirrorinstability Threshold
17.00	I.V.Romadanov	Space Propulsion Based on High-Beta Magnetic Fusion Rocket
17.20	S.V.Ryzhkov	Open Ended Magnetic Systems for Magneto-Inertial Fusion
18.30		Welcome party

Tuesday, July 6

09.00 -10.35		Chairman: B.Unterberg
09.00	A.Kreter	Reactor-relevant Plasma-Wall Interaction Studies in Linear Plasma Devices
09.35	A.A.Shoshin	Plasma-Surface Interaction during ITER Type I ELMs: Comparison of Simulation with QSPA Kh-50 and the GOL-3 Facilities
09.55	B.Schweer	Spectroscopy on Laser Released Particles from Plasma Facing Materials in a Tokamak
10.15	Y.Nakashima	Research Plan for Divertor Simulation Studies and Its Recent Results Using the GAMMA 10 Tandem Mirror
10.50 -11.10		Coffee break
11.10 -12.25		Chairman: T.C.Simonen
11.10	A.V.Burdakov	Concept of Fusion Reactor Based on Multi-Mirror Trap
11.45	I.V.Timofeev	Simulations of turbulent plasma heating by powerful electron beams
12.05	A.V.Arzhannikov	Subterahertz Emission at Strong REB-plasma Interaction in Multimirror Trap GOL-3

13.0014.00		Lunch
14.00 -15.50		Chairman: A.V.Burdakov
14.00	I.Katanuma	The Flute Mode Fluctuations and Associated Radial Transport in the GAMMA10 Divertor
14.35	V.P.Pastukhov	Turbulent Convection and Anomalous Cross-Field Transport in Mirror Plasmas
15.10	A.D.Beklemishev	Tail-Waving System for Active Feedback Stabilization of Flute Modes in Open Traps
15.30	V.V.Prikhodko	Low-Frequency Oscillations of Plasma in the Gas Dynamic Trap
16.0016.20		Coffee break
16.20 -18.15		Chairman: V.P.Pastukhov
16.20	M.Ichimura	Radial Transport of High-Energy Ions due to Low Frequency Fluctuations in the GAMMA 10 Tandem Mirror
16.55	M.S.Korzhavina	Study of Microinstabilities in Anisotropic Plasmoid of Thermonuclear Ions
17.15	Y.Miyata	Correlation Analysis of Electrostatic Fluctuation between Central and End Cells in GAMMA 10
17.35	A.V.Sidorov	Non-equilibrium Heavy Gases Plasma MHD-Stabilization in Axisymmetric Mirror Magnetic Trap
17.55	I.S.Chernoshtanov	Alfv'en Ion-cyclotron Instability in Mirror Trap with High-anisotropic Plasma
18.1518.40		Coffee break
18.40		Concert (Conference hall)

Wednesday, July 7 09.00 -12.30

9.00 -12	2.30		POSTER SECTION: It is highly recommended to post presentations on Monday and remove on Friday
09.00	1	A.D.Beklemishev	Three-Dimensional Force-Free Equilibria in Open Traps Driven by Electron Beams
	2	A.V.Sudnikov	MHD Activity in GOL-3 at the Stage of Plasma Cooling
	3	A.A.Skovoroda	About A Role of Mean Curvature in Magnetic Mirror Geometry
	4	V.V.Arsenin	MHD Stability of a Plasma in a System of Coupled Axisymmetric Adiabatic Open-ended Traps
	5	I.A.Ivanov	Stabilization of Relativistic Electron Beam by Dense Plasma Cloud in GOL-3 Expander
	6	A.Yu.Chirkov	Drift Instabilities and Collisionless Plasma Transport in Non-Uniform Poloidal Magnetic Configurations
	7	D.I.Skovorodin	Numerical Kinetic Model of Axial Confinement in a Mirror Trap
	8	V.A.Kurnaev	Strongly Nonparaxial Mirror Magnetic Confinement Systems Based on the Dipole Geometry
	9	H.Takeno	Simulation Experiments of Traveling Wave Direct Energy Converter on GAMMA 10 Tandem Mirror
	10	H.Takeno	Charge Separation and Deceleration of High Density Plasma in a Cusp Type Direct Energy Converter Simulator
	11	G.I.Dimov	Feasible Scenario of Creation and Burning of Fusion Plasma in Ambipolar D–T Reactor
	12	G.I.Dimov	Multicusp Trap with Circular Geometry for Confinement of Low-temperature Plasma
	13	V.I.Volosov	Problems of the ACT Reactor (the P11B Reaction)
	14	A.Hagnestål	Theoretical Field and Coil Design for a Single Cell Minimum-B Mirror Hybrid Reactor
	15	A.V.Anikeev	The GDT Based Neutron Source as a Driver in a Sub-critical Burner of Radioactive Wastes
	16	E.D.Gospodchikov	On the Possibility of ECR-discharge with Overcritical Plasma Density in Axisymmetrical Magnetic Trap
	17	E.D.Gospodchikov	Influence of Magnetic Field Directions Inhomogeneity on Longitudinal Propagation of Wave Beams
	18	K.Hosoi	Investigation of Plasma Behavior during the ECRH Injection in GAMMA 10
	19	M.Yoshikawa	Fluctuation Suppression during Confining Potential Formation in the Tandem Mirror GAMMA 10
	20	H.Kondou	Effect of Electron Cyclotron Wave Polarization on Plasma Heating and Peripheral Ion Loss in GAMMA 10 ECRH

09.00	21	M.Ota	Development of 28 GHz-1 MW Gyrotron for GAMMA10 ECRH
2	22	T.Kariya	Development of Mega-Watt Gyrotrons for Fusion Research
2	23	R.Minami	High Power ECH Experiments for Direct Bulk Electron Heating in Central-Cell Region Plasmas on GAMMA 10 Tandem Mirror
2	24	H.Aoki	Improvement of ECRH Elliptical Mirror Antenna for GAMMA 10
2	25	Y.Yamaguchi	Ion-Cyclotron Resonance Heating Experiment in the Quadruple Minimum-B Field on GAMMA 10
2	26	F.Yaguchi	Observation of the Flute-type Fluctuation by Using the Gold Neutral Beam Probe in GAMMA 10
2	27	V.V.Maximov	DD Product Yield in the GDT Central Cell
2	28	S.V.Polosatkin	Advanced Neutral Particle Analyzer for Fusion Plasma Diagnostics
2	29	V.I.Batkin	Development of New Neutral Beam Injection System on GOL-3 Facility
3	30	A.S.Arakcheev	Formation of Small Dust Particles by Brittle Destruction
3	31	A.A.Shoshin	Structure Modification of Different Graphite and Glassy Carbon Surfaces under High Power Action by Hydrogen Plasma
3	32	A.Smirnov	Neutral Beam Dump With Cathodic Arc Titanium Gettering
	33	A.A.Listopad	Characterization of RUDI Neutral Beam Parameters by Optical Diagnostics
3	34	V.Dudnikov	Advanced Large Volume Surface Plasma H-/D- Source (LV SPS) for neutral beam injectors
3	35	S.V.Murakhtin	Neutral Beam System of the Gas Dynamic Trap
	36	I.V.Shikhovtsev	A Continuously Operated 70mA, 50keV Proton Source for Plasma Diagnostic and Other Applications
3	37	N.Sorokina	Study of Plasma on the GOL-3 Facility by Imaging VUV Spectroscopy
3	38	H.Iizumi	Studies of GAMMA 10 ECRH Characteristics from the Soft X-rays Measurement
	39	S.S.Popov	Upgrading of Thomson Scattering System for Measurements of Spatial Dynamics of Plasma Heating in GOL-3
2	40	N.Nishino	High-speed Imaging of Edge Plasma in the GAMMA 10 Tandem Mirror
2	41	A.V.Lvovskiy	Line Plasma Density Measurement in the Gas Dynamic Trap with Dispersion Interferometer
2	42	V.S.Burmasov	CO2 Interferometer for GOL-3 Multimirror Trap
2	43	S.L.Sinitsky	Influence of Diode Geometry and Voltage Pulse Profile on REB Parameters of U-2 Accelerator
2	44	S.L.Sinitsky	Energy Spectrum of Electrons in Flow from Plasma Column Heated by REB at GOL-3 Facility
2	45	V.V.Postupaev	Experiments with Gradual-Energy-Growth Electron Beam at GOL-3
2	46	I.V.Timofeev	Direct Computation of the Growth Rate for the Instability of a Warm Relativistic Electron Beam in a Magnetized Plasma
2	47	V.T.Astrelin	Physical Basis for the Use of Long Pulse Electron Beam in Multi-mirror Trap
2	48	V.I.Erofeev	High-informative Theorizing in Plasma Physics: Basic Principles and Importance for Researches on Beam-Plasma Heating, Plasma Confinement and Transport Phenomena
2	49	V.Vshivkov	Numerical Modeling of Plasma Dynamics in Non-uniform Magnetic Field
4	50	A.Snytnikov	3D Particle-In-Cell Simulation of the Beam-Plasma System
4	51	I.V.Kandaurov	Submillisecond Electron Beam for Plasma Heating in Multi-mirror Trap GOL-3
10.3010.5	50		Coffee break
12.3013.3	30		Lunch
13.15			Bus to ship tour and barbeque (departure from "Golden Valley")

Thursday, July 8

09.30 -10.30		Chairman: B.Schweer
09.30	A.L.Solomakhin	Measurement of Plasma Density in Modern Fusion Devices by Dispersion Interferometer
09.50	D.Den Hartog	Advances in Time-Resolved Measurement of Magnetic Field and Electron Temperature in Low-magnetic-field Plasmas

10.10	V.I.Davydenko	Development of Focused Neutral Beams With Small Angular Divergence For Plasma Heating And Diagnostics
10.3510.55		Coffee break
10.55 -12.45		Chairman: I.Katanuma
10.55	V.L.Vdovin	Physics and Scenarios of ICRF Plasma Heating in Mirror Traps
11.30	H.Takeno	Rotating RF System for Novel Control of a Magnetoplasma Thruster
12.05	V.E.Moiseenko	Radio-Frequency Heating in Straight Field Line Mirror Neutron Source
12.25	A.J.Fetterman	Wave Induced Supersonic Rotation in Mirrors
13.0014.00		Lunch
14.00 -15.50		Chairman: D.Den Hartog
14.00	V.G.Zorin	Heavy gas ECR breakdown in open mirror trap
14.35	V.V.Postupaev	Experiments with "Thin" Electron Beam at GOL-3
15.10	A.A.Kabantsev	"Chaotic" Neoclassical Transport at Azimuthally Perturbed or Wave-Mingled Separatrix
15.30	V.G.Sokolov	Experimental Observation of Zonal Flow and Its Scalings in Axisymmetric Magnetic Field
16.00 -16.20		Coffee break
16.20 -17.40		Chairman: V.E.Moiseenko
16.20	S.Taczanowski	Transmutations of Actinides in Open Magnetic Confinement Systems – a Model Fusion- Fission Alliance
16.40	K.Noack	Neutronic Model of a Mirror Based Fusion-Fission Hybrid for Power Generation and Incineration of Spent Nuclear Fuel
17.00	A.V.Anikeev	Numerical Model of the Fusion-Fission Hybrid System Based on Gas Dynamic Trap for Transmutation of Radioactive Wastes
17.20	O.Agren	Fusion-fission Hybrid Reactor Studies for the Straight Field Line Mirror
18.00		Bus to conference dinner

Friday, July 9

10.00 -11.10		Chairman: V.L.Vdovin
10.00	C.F.Driscoll	Overview of Transport, Damping, and Wave-Couplings from Separatrix Dissipation in an Axisymmetric Plasma
10.35	V.A.Kurnaev	Plasma Surface Interactions in Fusion Devices (Review of recent results presented at PSI conference in San Diego)
11.1011.30		Coffee break
11.30 -12.45		Chairman: E.P.Kruglyakov
11.30	A.E.Shevelev	Gamma-Ray Spectrometry of Hot Plasmas
11.50	A.A.Panasenkov	Engineering-Physical Tokamak T-15MD and Steady State Injection
12.10	A.A.Ivanov	Perspectives of Development of Magnetic Mirror Traps in Novosibirsk
12.4513.00		Conference closing
13.0014.00		Lunch
14.0016.00		Excursions to experimental facilities of Budker Institute
16.0018.00		Optional excursions to Novosibirsk and Akademgorodok

Saturday, July 10 8.00 Departure

Bus to the Post-Conference Tour