

## Oral Sessions and Poster

<i>July 7, Mon.</i>	<i>July 8, Tues.</i>	<i>July 10, Thurs.</i>	<i>July 11, Friday</i>
<p style="text-align: center;"><b>8:30~8:45</b> <i>Opening Ceremony</i></p> <p style="text-align: center;"><b>8:45~10:15</b> <i>Session 1:</i> <i>Invited Presents</i></p> <p style="text-align: center;"><i>Coffee break</i></p> <p style="text-align: center;"><b>10:30~12:00</b> <i>Session 2:</i> <i>Invited Presents</i></p>	<p style="text-align: center;"><b>8:00~9:50</b> <i>Session 4:</i> <i>PPT</i></p> <p style="text-align: center;"><i>coffee break</i></p> <p style="text-align: center;"><b>10:00~11:50</b> <i>Session 5:</i> <i>PPT</i></p>	<p style="text-align: center;"><b>8:00~9:50</b> <i>Session 7:</i> <i>Beams+HPM</i></p> <p style="text-align: center;"><i>coffee break</i></p> <p style="text-align: center;"><b>10:00~11:50</b> <i>Session 8:</i> <i>Beams</i></p>	<p style="text-align: center;"><b>8:00~9:50</b> <i>Session 10:</i> <i>HPM</i></p> <p style="text-align: center;"><i>coffee break</i></p> <p style="text-align: center;"><b>10:00~11:50</b> <i>Session 11:</i> <i>HPM</i></p>
<p style="text-align: center;"><b>13:00~15:40</b></p> <p style="text-align: center;"><i>Session 3:</i> <i>Z-Pinch</i></p>	<p style="text-align: center;"><b>13:00~15:40</b></p> <p style="text-align: center;"><i>Session 6:</i> <i>PPT+HPM</i></p>	<p style="text-align: center;"><b>13:00~15:40</b></p> <p style="text-align: center;"><i>Session 9:</i> <i>Applications</i></p>	<i>Free time</i>
<p style="text-align: center;"><b>15:40~17:30</b></p> <p style="text-align: center;"><i>Poster</i> <i>07-P-01 ~ 07-P-60</i></p>	<p style="text-align: center;"><b>15:40~17:30</b></p> <p style="text-align: center;"><i>Poster</i> <i>08-P-01 ~ 08-P-60</i></p>	<p style="text-align: center;"><b>15:40~17:30</b></p> <p style="text-align: center;"><i>Poster</i> <i>10-P-01 ~ 10-P-60</i></p>	

## *The list of Invited and Oral presentation*

**July 7, Mon.**

<b>Session 1: Invited Presents</b>				<b>Session Chair: W.H. Jiang, Tsinghua Univ., China</b>
8:45-9:15	07-PI-01	V. Smirnov	Russia	Review of Pulsed Power Development in Russia
9:15-9:45	07-PI-02	B.V. Oliver	USA	Recent Advances in Radiographic X-Ray Source Development at Sandia
9:45-10:15	07-PI-03	A.V. Ivanovskiy	Russia	Prospects of Study of Solid Liner Systems Stabilization with the Help of Helical EMG
<b>Session 2: Invited Presents</b>				<b>Session Chair: Z.Z. Zheng, NINT, China</b>
10:30-11:00	07-PI-04	Cooperstein	USA	Overview of High-Power Particle Beam Research at the US Naval Research Laboratory
11:00-11:30	07-PI-05	E. Schamiloglu	USA	Recent Progress on Relativistic Magnetrans Using a Transparent Cathode for HPM Generation
11:30-12:00	07-PI-06	L.W. Zhang	China	High Power Particle Beams Research in CAEP
<b>Session 3: Z-pinches and imploding liners</b>				<b>Session Chair: J.E. Maenchen, SNL, USA</b>
13:00-13:20	07-I-01	Z.Z. Zeng	China	Progress in Z-Pinch at NINT
13:20-13:40	07-I-02	E. V. Grabovski	Russia	the “Baikal” Project and investigations of Radiating Z-Pinches at the “Angara-5-1” Facility
13:40-13:55	07-O-01	N. Cheng	China	The Electromagnetic Energy Conversion in the Processes of Z-Pinch Implosion on the “QIANG GUANG I” Facility
13:55-14:10	07-O-02	H.T. Li	China	Development of the Prototype Module of the 6MV/10MA Z-Pinch Primary Test Stand
14:10-14:25	07-O-03	A.Gribov	Russia	Space-Temporal Structure and X- ray Emission Dynamic of Z-Pinch on Base of Wire Arrays in Energy Quantum Range over 20 keV
14:25-14:40	07-O-04	A. Gordeev	Russia	X- ray Emission of Relativistic Nonquasineutral Current Structures (Nonthermal Model of “Hot Spot”)
14:40-14:55	07-O-05	S.Dan’ko	Russia	Plasma Dynamics in Different Kinds of Experiments at Megaampere Range on S-300 Machine
14:55-15:10	07-O-06	Meng Wang	China	Circuit Simulation and Transient Electromagnetic Field Analysis of Water Convolute of PTS
15:10-15:25	07-O-07	P.V.Sasorov	Russia	Ablation from Multiwire Arrays Made of

15:25~15:40	07-O-08	Haijun Yu	China	Fusible Metals Multiframing Mach-Zehnder interferometer for Spatiotemporal Plasma Density Measurement in “Dragon-1” Target Zone
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**July 8, Tues.**

**Session 4: Pulse power and accelerators Technology**

**Session Chair: E.Grabovski, TRINITI, Russia**

8:00~8:20	08-I-01	W.P. Xie	China	Introduction of Pulsed Power Laboratory of IFP
8:20~8:35	08-O-01	X.X. Song	China	A Repetitive High-Current Pulsed Accelerator—TPG700
8:35~8:50	08-O-02	J. Kim	Korea	Sharp Electron Density Gradient For Laser Wakefield Accelerator
8:50~9:05	08-O-03	K.F. Liu	China	Design of High- Repetitive Rate Pulsed Power Supply for High Power Microwave Based on Solid-State Marx Generator
9:05~9:20	08-O-04	V.F. Feduschak	Russia	Forming of High Voltage Pulses in Nanosecond Range by Scheme of Linear Pulse Transformer with Ferromagnetic System on the Basis of 2HCP (in Russian) Alloy
9:20~9:35	08-O-05	V. S. Lopatin	Russia	Study of Magnetically Isolated Diode with Dielectric Anode at Repetitive Rate Operation Mode
9:35~9:50	08-O-06	M.R. Ulmaskoulov	Russia	Optimization of High-Voltage Nanosecond Pulse Compression

**Session 5: Pulse power and accelerators Technology**

**Session Chair: P.W.Smith, Oxford Univ., UK.**

10:00~10:20	08-I-02	K. Kolacek	Czech	Prospects of Pulsed High-Current Discharge in Nitrogen-Filled-Capillary for Lasing at 13.4 nm
10:20~10:35	08-O-07	O.G. Egorov	Russia	Further Development of the Conception of High Power Pulsed Compact Generator Based on inductive Storage and Combined Opening Switch
10:35~10:50	08-O-08	Yu Wang	China	Composite Material Vacuum insulator for Large Pulsed Power Facility
10:50~11:05	08-O-09	L.P. Wang	China	the Design of the Double Shell Gas Puff for Qiangguang I Generator
11:05~11:20	08-O-10	Eryomkin	Russia	Withdrawn
11:20~11:35	08-O-11	Q.F.Wang	China	Compact Repetitive PFN-LTD Pulse-Power Generator

11:35~11:50	08-O-12	S.V. Loginov	Russia	High-Current Electron Accelerator Based on Pulse Generator with Vacuum insulation
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**Session 6: Pulse power and accelerators Tech. + HPM**

**Session Chair: B.V.Oliver, SNL, USA**

13:00~13:20	08-I-03	J.D. Zhang	China	Studies of High Power Microwave Sources at NUDT
13:20~13:40	08-I-04	V. Rostov	Russia	Advances in Cherenkov Relativistic Backward-Wave Oscillators
13:40~13:55	08-O-13	X.B. Jing	China	200keV Double-pulse LIA Device High Power and Repetitively Pulsed
13:55~14:10	08-O-14	H. Huang	China	Operation of a Relativistic Extended-interaction-Cavity Oscillator
14:10~14:25	08-O-15	L.S. Caballero B	UK	STARFISH 1, Towards a 1MA Compact Pulsed Power Generator for Z-Pinch Applications
14:25~14:40	08-O-16	S.V. Loginov	Russia	High-Voltage Pulse Generators for Microwave Radiation Sources
14:40~14:55	08-O-17	K. W. Struve	USA	1D and 2D Circuit-Code Modeling of the Refurbished Z Accelerator
14:55~15:10	08-O-18	Z. Chen	China	A Compact, Repetitive Trigger Generator
15:10~15:25	08-O-19	Z. Li	Japan	Effects of Output Peak Capacitor on Underwater Streamer Discharges
15:25~15:40	08-O-20	G. Barnea	Israel	Withdrawn

**July 10, Thurs.**

**Session 7: High-power electron and ion beams physics + HPM**

**Session Chair: J.D. Zhang, NUDT, China**

8:00~8:20	10-I-01	Wenlong He	UK	High Power Microwave Research at the University of Strathclyde
8:20~8:35	10-O-01	C.H. Chen	China	Advances in Relativistic BWOs at Repetitive Rate
8:35~8:50	10-O-02	S. Hao	China	Long Pulse HPM Generation By Coaxial Vircator
8:50~9:05	10-O-03	J. Zhou	China	Design of A High-Performance 2-D Electromagnetic Particle-in-Cell (PIC) Code
9:05~9:20	10-O-04	H. Li	China	Design High Power Compact Multimode Feed by MMT
9:20~9:35	10-O-05	D. Yarmolich	Israel	Phenomena of Non-Complete Ferroelectric Surface Discharge
9:35~9:50	10-O-06	S.A. Shunailov	Russia	Investigations of Cold Cathode Emission in Gas and Vacuum with Picosecond Resolution

**Session 8: High-power electron and ion beams physics**

**Session Chair: V.Koidan, Kurchatov Institute, Russia**

10:00~10:20	10-I-02	D. Short	UK	Initial LSP Simulations of Electron Beam Transport in Gas Filled Drift Cells and Comparison with Experiments Performed on the ETA II Linear induction Accelerator at LLNL
10:20~10:35	10-O-07	S.V. Grigoryev	Russia	Effect of Emission increasing at the Generation of Low-Energy Submillisecond Electron Beam in the Diode with the Plasma Cathode
10:35~10:50	10-O-08	G. E. Ozur	Russia	Increasing the Current Rise Rate of Low-Energy, Dense Pulsed Electron Beams
10:50~11:05	10-O-09	V.P. Grigoriev	Russia	Investigation of Low-Energy, High-Current Electron Beam Transportation
11:05~11:20	10-O-10	G.X. Du	China	Investigation of an Ideal intense Relativistic Sheet Electron Beam Propagating in a Periodic Magnetic Focusing System
11:20~11:35	10-O-11	A.I. Pushkarev	Russia	Dynamics of Cathode Plasma Speed in Planar Diode with Explosive Emission Cathode
11:35~11:50	10-O-12	L.S. Xia	China	Research on Large Emission Area thermionic Cathode

**Session 9: Applications of high-power particle beams**

**Session Chair: M.Markovits, RAFAEL, Israel**

13:00~13:20	10-I-03	K. Horioka	Japan	Pulse Power Device and Beam-Driven Target as Tools for High Energy Density Science
13:20~13:40	10-I-04	V.S. Koidan	Russia	Impact of Conductors Accelerated by a Pulsed High Magnetic Field
13:40~13:55	10-O-13	Y. Lei	China	Acceleration of Macroparticle to Hypervelocity by High intensity Beams
13:55~14:10	10-O-14	Z.G. Mao	China	Predicting the Behavior of Pulsed Wire Discharge
14:10~14:25	10-O-15	Y. Livshiz	Israel	High-Voltage / High-Current Pulse Power: off-the-Shelf Generators for Commercial, Research, Civil and Military Test Applications
14:25~14:40	10-O-16	S.L. Sinitsky	Russia	Heating the Plasma in Multimirror Trap GOL-3
14:40~14:55	10-O-17	G.E. Remnev	Russia	Formation of Silicon Carbide and Nano Diamonds in Surface Layer of Silicon Target at High-Power Ion Beam Irradiation
14:55~15:10	10-O-18	V. Burdovitsin	Russia	Electron Beams under Fore Pump Pressure Range: Generation and Application
15:10~15:25	10-O-19	N.N. Koval	Russia	Surface Modification of TiC NiCr Hard Alloy by Electron Beam Treatment

15:25~15:40	10-O-20	K. Magugata	Japan	Characterisation of intense Pulsed Aluminum Ion Beam By Magnetically insulated Diode With Vacuum Arc Ion Source
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**July 11, Friday**

**Session 10: High-power microwave**

**Session Chair: J.C.Dickens, Texas Tech Univ., USA**

8:00~8:20	11-I-01	J. Benford	USA	Cost Optimization of HPM Systems
8:20~8:35	11-O-01	D.B. Chen	China	Design and Simulation of C-Band Bifrequency Magnetically insulated Transmission Line Oscillator
8:35~8:50	11-O-02	S.L. Sinitsky	Russia	Simultaneous Generation and Transport of Two Microsecond Sheet REBs for FEM Application
8:50~9:05	11-O-03	E. Abubakirov	Russia	Hard Excitation of Relativistic Backward Wave Oscillator
9:05~9:20	11-O-04	V.P. Grigoriev	Russia	Mode Structure Investigation of A Field in the Triode with the Virtual Cathode
9:20~9:35	11-O-05	Y.C. Huang	Twain	Desk-top, 20-MW Superradiance FEL at THz Frequencies
9:35~9:50	11-O-06	R.Z Xiao	China	An Inward-Emitting Magnetically Insulated Line Oscillator

**Session 11: High-power microwave**

**Session Chair: E.Schamiloglu, Univ. of New Mexico, USA**

10:00~10:20	11-I-02	L. Meng	China	Research Activities on High Power Microwave at UESTC
10:20~10:35	11-O-07	Z.X. Jin	China	Experimental investigation of A Long-Pulse S-Band Relativistic BWO
10:35~10:50	11-O-08	C.W. Yuan	China	Design of A TM <sub>01</sub> –TE <sub>01</sub> Transmission Line for High-Power Microwave Applications
10:50~11:05	11-O-09	Y.W. Fan	China	Repetition Rate Operation of an Improved Magnetically Insulated Transmission Line Oscillator
11:05~11:20	11-O-10	W.H. Jiang	Japan	Experimental and Numerical Study of Relativistic Magnetron With Axial Extraction
11:20~11:35	11-O-11	S.V. Kladukhin	Russia	Decreasing of Single-Mode Relativistic BWO Impedance
11:35~11:50	11-O-12	D. Wang	China	Withdrawn