

MG-XVI Technical Program

Tuesday, 25

Wednesday, 26

Thursday, 27

Friday, 28

Saturday, 29

15:30 - 20:30 Registration	Opening 8:45 - 9:00 Opening Ceremony / Director ISSP, H. Mori / G. Chair S. Takayama			Chair						Chair				
	Plenary W1 9:00 - 9:30 Chair Y. H. Matsuda (Japan)	9:00 - 9:30	Chair Shojiro Takayama, ISSP, UTokyo, Japan 1000 T project of the electro-magnetic flux compression at Kashiwa, Utokyo [ID-35]	Plenary T1 9:00 - 9:30 H. Nojiri (Japan)	9:00 - 9:30	Chair Marcelo Jaime, Los Alamos National Laboratory, USA Magnetoelastics of AFM domains in UO ₂ and a novel electronic nematic state in CoRhIn ₂ [ID-47]	Plenary F1 9:00 - 9:30 B.M. Novac (UK)	9:00 - 9:30	Chair Vasily Demidov, Russian Federal Nuclear Center - VNIIEF, Russia Application of Helical Magneto-Cumulative Generators in Physical Experiments [ID-21]	Plenary S1 9:00 - 9:30 R. Reinovsky (USA)	9:00 - 9:30	Chair Wenaking Zou, Key Laboratory of Pulsed Power, Institute of Fluid Physics, China Academy of Engineering Physics, China Progress of High Current Pulse Transmission Based on the 10 MA Primary Test Stand [ID-5]		
	Plenary W2 9:30 - 10:00 C. L. Rousculp (USA)	9:30 - 10:00	Sergei Zherlitsyn, Helmholtz-Zentrum Dresden-Rossendorf, Germany Exotic Magnetic States at High Magnetic Fields [ID-19]	Plenary T2 9:30 - 10:00 G. Shvetsov (Russia)	9:30 - 10:00	Liang Li, Wuhan National High Magnetic Field Center, China Pulsed High Magnetic Fields with Flat-top Generated by Capacitor Banks Driven Magnet System and Its Experiments [ID-204]	Plenary F2 9:30 - 10:00 Y. Kohama (Japan)	9:30 - 10:00	James Houston Goforth, Los Alamos National Laboratory, USA The Path to 100-MJ Ranchero Experiments [ID-12]	Plenary S2 9:30 - 10:00 F. F. Balakirev (USA)	9:30 - 10:00	A. M. Bugko, Russian Federal Nuclear Center, Russia 25th Anniversary of the Joint US-Russian Disk EMG Experiment [ID-40]		
	Break	10:00 - 10:30	Let's enjoy Coffee!	Break	10:00 - 10:30	Let's enjoy Coffee!	Break	10:00 - 10:30	Let's enjoy Coffee!	Break	10:00 - 10:30	Let's enjoy Coffee!		
	Talk W1	10:30 - 10:45	M.Hagiwara (Japan) Oliver Portugal, CNRS-LNCMI, France Megagauss fields for scientific experiments: strategies and routes to improve magnet reliability [ID-93]	Talk T1	10:30 - 10:45	O.Portugal (France) Masayuki Hagiwara, Osaka University, Japan High-Field Magnetism of a Spin-2 Quasi-One-Dimensional Heisenberg Antiferromagnet [ID-56]	Poster 10:30 - 12:15 Poster Session (III) Group A & B Steering Committee		Talk S1	10:30 - 10:45	P.Turchi (USA) Robert Emil Reinovsky, Los Alamos National Laboratory, USA USING MAGNETO-HYDRODYNAMIC EXPERIMENTS AND HIGH MAGNETIC FIELDS, TO VALIDATE MODERN CODES THAT SIMULATE EXTREME CONDITIONS [ID-38]			
	Talk W2	10:45 - 11:00	Fedor F. Balakirev, Los Alamos National Laboratory, USA Pulsed Magnetic Field Measurement Tools and Techniques for Millisecond and Microsecond Time Domains [ID-55]	Talk T2	10:45 - 11:00	Toru Sakai, University of Hyogo, Japan Field Induced Spin Nematic Phases of Low Dimensional Magnets [ID-46]			Talk S2	10:45 - 11:00	Christopher L Rousculp, Los Alamos National Laboratory, USA MHD Modeling of Shock Physics Experiments with the PHELIX Portable High Magnetic Field Driver [ID-75]			
	Talk W3	11:00 - 11:15	Hiroyuki Nojiri, IMR, Tohoku University, Japan Quantum Beam Experiments in Strong Magnetic Fields Generated by a Portable Capacitor Bank [ID-201]	Talk T3	11:00 - 11:15	Yuki Izaki, University of Electro-Communications, Japan Anomalous Zeeman effect in strongly spin-orbit coupled system [ID-73]	Talk S3	11:00 - 11:15	Matthew S. Freeman, Los Alamos National Laboratory, USA Cylindrical Driven Shocks in Ceria [ID-74]					
	Talk W4	11:15 - 11:30	Yuya Kubota, Japan Synchrotron Radiation Research Institute (JASRI), Japan Status and Applications of SACLA [ID-79]	Talk T4	11:15 - 11:30	Shusuke Kasamatsu, ISSP, UTokyo, Japan vdW-DF+U description of solid oxygen in ambient pressure and its magnetic-field induced phase transition [ID-60]	Talk S4	11:15 - 11:30	Douglas George Tasker, Los Alamos National Laboratory, USA The Effect of Metal Temper on Explosively-Formed Fuse Performance [ID-16]					
	Talk W5	11:30 - 11:45	Stanley Wilson Tozer, National High Magnetic Field Laboratory, USA High pressure, high magnetic field Fermiology studies of YBCO [ID-54]	Talk T5	11:30 - 11:45	Peter John Turchi, Compact Fusion Systems, Inc., USA Review of Controlled Fusion Power at Megagauss Field Levels [ID-41]	Talk S5	11:30 - 11:45	W. Zou (China) Zhongyu Zhou, Institute of Fluid Physics, China Academy of Engineering Physics, China A Method for Electrical Conductivity Measurement of Substances under Isentropic Magnetic Compression [ID-13]					
	Talk W6	11:45 - 12:00	M. Tokunaga (Japan) Takeshi Kondo, ISSP, UTokyo, Japan Observation of Fermi pockets under the coexistence of superconductivity and antiferromagnetism in multi-layered high-Tc cuprates [ID-63]	Talk T6	11:45 - 12:00	P. Holligan (UK) Kenneth William Struve, Sandia National Laboratories, USA Estimates of Saturn Radiation Output Scaling versus Machine Design Parameters [ID-61]	Talk S6	11:45 - 12:00	Zhaohui Zhang, Institute of Fluid Physics, China Measurement of Dynamic Materials Properties on PTS [ID-8]					
	Talk W7	12:00 - 12:15	Zhe Wang, Helmholtz Zentrum Dresden Rossendorf, Germany Quantum Criticality of an Ising-like Spin-1/2 Antiferromagnetic Chain in a Transverse Magnetic Field [ID-67]	Talk T7	12:00 - 12:15	Bucur Novac, Loughborough University, UK Unconventional Microwave Source [ID-30]	Closing 12:00 - 12:15 Closing Ceremony							
	Break	12:15 - 14:00	Let's enjoy Lunch!	Break	12:15 - 14:00	Let's enjoy Lunch!								
	Poster	14:00 - 15:30	Poster Session (I) Group A	Poster	14:00 - 15:30	Poster Session (II) Group B	Lab. Tour 14:00 - 17:00 Y. Kohama (Japan) IMGSL ISSP Lab. Tour and Demo EMFC Explosion Experiment							
	Break	15:30 - 16:00	Let's enjoy Coffee!	Break	15:30 - 16:00	Let's enjoy Coffee!								
	Invited W1	16:00 - 16:25	K. Kindo (Japan) Atsuhiko Miyata, LNCMI-Toulouse, France Megagauss experiments at the LNCMI in Toulouse [ID-104]	Invited T1	16:00 - 16:25	J. Goforth (USA) Paul Holligan, First Light Fusion, UK An overview of the pulsed power developments at First Light Fusion including the design and construction of Machine 3, a 2.5 MJ low inductance capacitor discharge machine [ID-205]								
	Invited W2	16:25 - 16:50	Akihiko Ikeda, ISSP, UTokyo, Japan Magnetostriction studies up to megagauss fields using fiber Bragg grating technique [ID-83]	Invited T2	16:25 - 16:50	Gerald F Kluttu, VarTech Services, USA Electric Field and Breakdown Modeling of Helical Explosive Generators [ID-42]								
	Talk W8	16:50 - 17:05	K. Struve (USA) Guanqiong Wang, Institute of Applied Physics and Computational Mathematics, China Numerical Study of the striation formation in the early phases of the cylindrical foil implosions on the PTS facility [ID-7]	Talk T8	16:50 - 17:05	E. Harez (USA) Andrew Jacob Young, Lawrence Livermore National Laboratory, USA On the Results of an Experiment with a Megajoule Class Helical Flux Compression Generator Operating at Above-Nominal Levels of Current and Voltage Stress [ID-62]								
	Talk W9	17:05 - 17:20	Zhengwei Zhang, Institute of Fluid Physics, China Academy of Engineering Physics, China Experimental investigation of the mixing of gas-particles on shock loading [ID-53]	Talk T9	17:05 - 17:20	Timothy Foley, Los Alamos National Laboratory, USA Coming Back Around Again: The Machined, Helical Flux Compression Generator [ID-64]								
	Talk W10	17:20 - 17:35	Yang Zhang, Institute of Applied Physics and Computational Mathematics, China Numerical Study of Magnetically Driven Experiments on PTS and FP-1 Facility [ID-10]	Talk T10	17:20 - 17:35	Mikhail Alekseevich Shurupov, JIHT RAS, Russia Explosion magnetic generator for power supply of a plasma loads [ID-33]								
	Talk W11	17:35 - 17:50	Qizhi Sun (China) Gulin Wang, Key Laboratory of Pulsed Power, Institute of Fluid Physics, CAEP, China Recent advances in hyper-velocity flyer launch and impact experiments on PTS [ID-36]	Talk T11	17:35 - 17:50	S. Garanin (Russia) Erik Hector Harez, Los Alamos National Laboratory, USA Initial Experiments with LANL "Ranchero-S" Flux Compression Generator [ID-37]								
	Talk W12	17:50 - 18:05	Gennady A Shvetsov, RUSSIAN ACADEMY OF SCIENCES, Russia Effect of Magnetic Fields on the Operation of Shaped Charges [ID-65]	Talk T12	17:50 - 18:05	Zhuowei Gu, Institute of Fluid Physics, Chinese Academy of Engineering Physics, China Explosive Implosion Magnetic Flux Generator Researching and its Application in Extreme Condition Experiments [ID-11]								
	Night Out	18:30 - 21:00	Let's enjoy Night Out (with guide)	Party	18:30 - 21:00	100th-Birth Celebra. M. Fowler	Banquet	18:30 - 21:00	Conference Banquet					