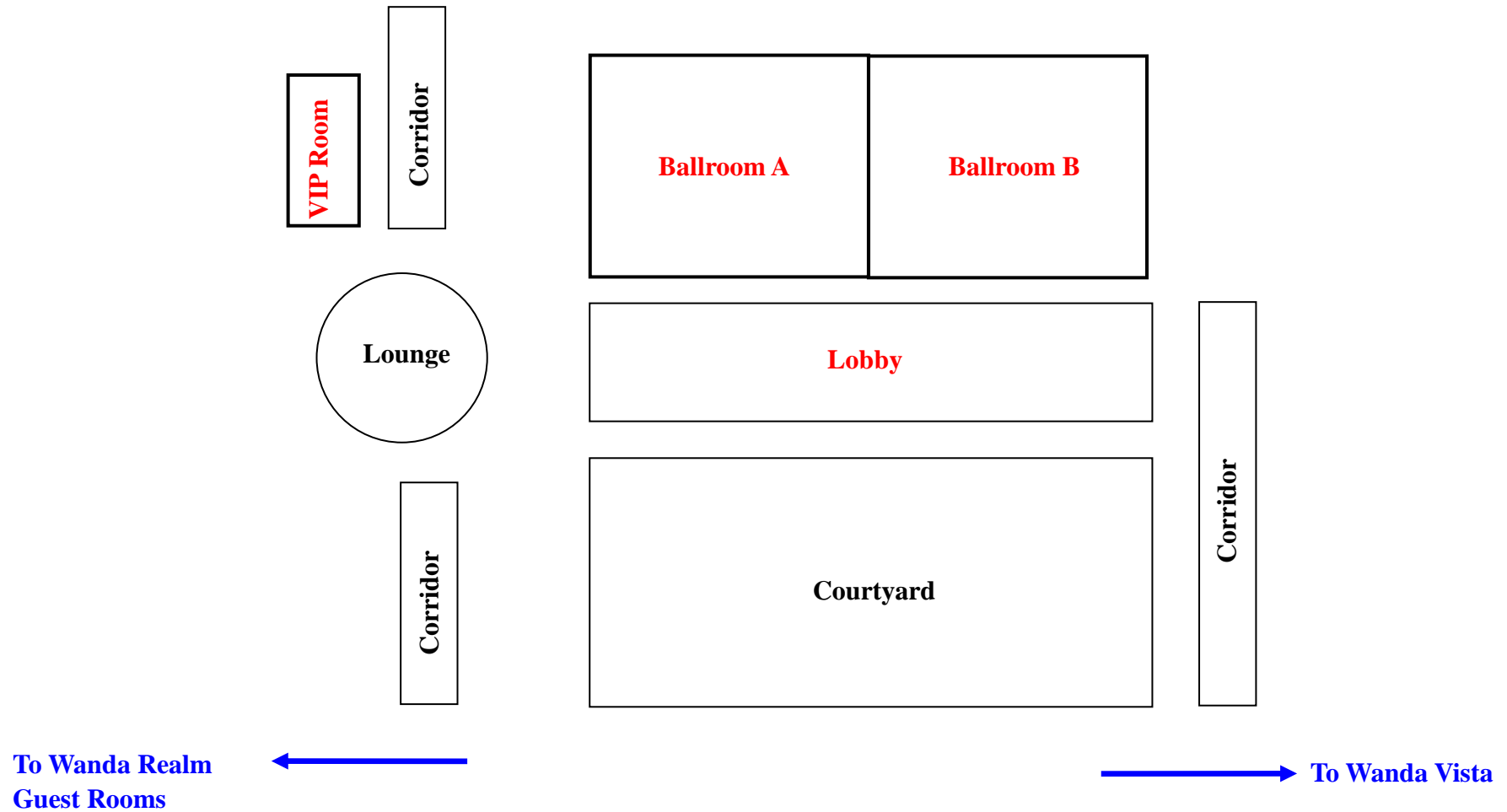


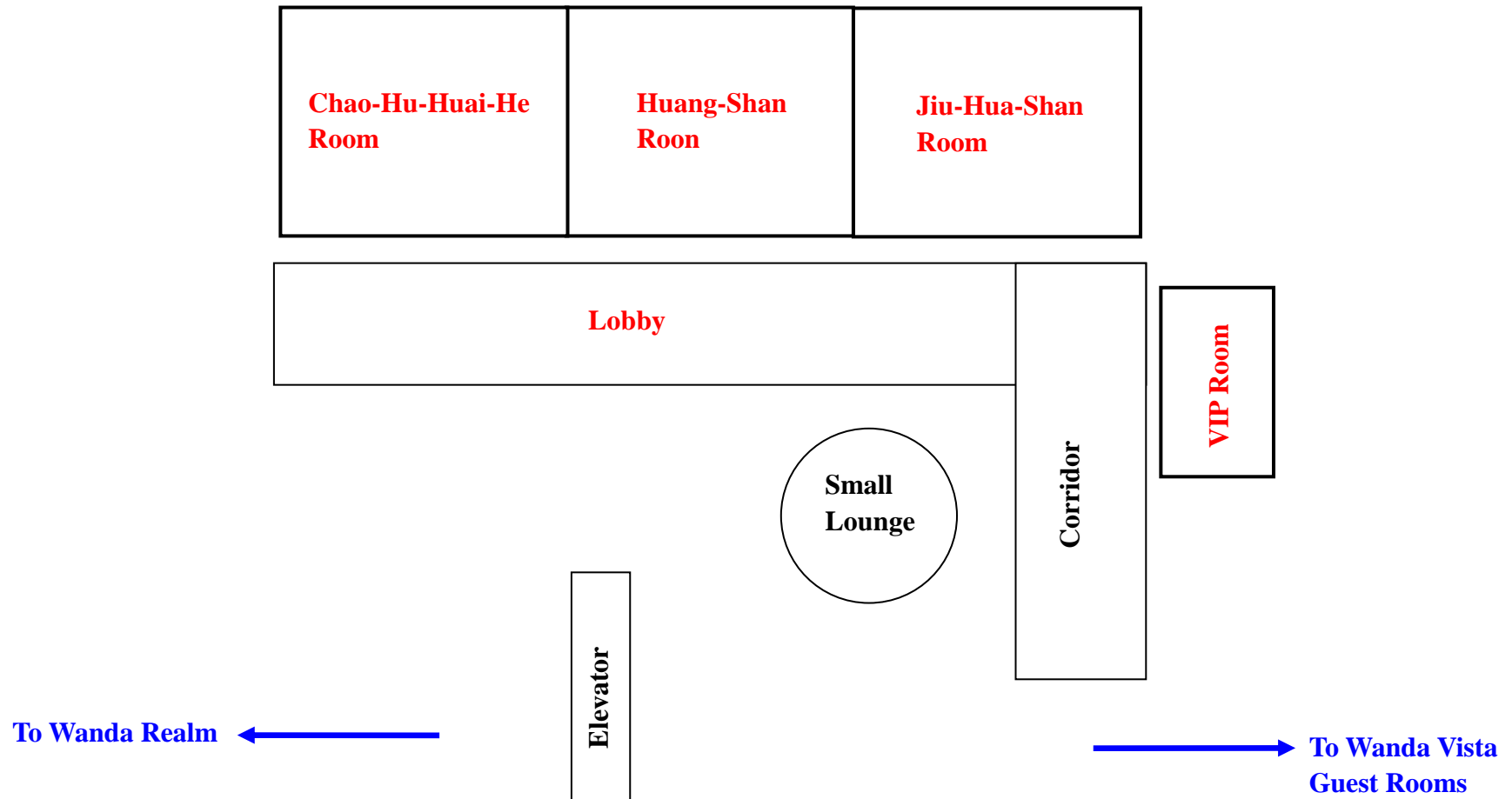
## ICMRE2019 Conference Program

		<b>May, 29<sup>th</sup></b> Wednesday		<b>May, 30<sup>th</sup></b> Thursday	<b>May 31<sup>st</sup></b> Friday	<b>June 1<sup>st</sup></b> Saturday	<b>June 2<sup>nd</sup></b> Sunday	
<b>Morning</b>	<b>8:00-12:00</b>	<b>Registration</b>		<b>Opening Ceremony Plenary</b>	<b>Plenary</b>	<b>Plenary</b>	<b>Plenary Closing Ceremony</b>	
<b>Afternoon</b>	<b>14:00-16:00</b>		<b>Editorial Board Meeting</b>	<b>Parallel</b>	<b>Parallel</b>	<b>Parallel</b>	<b>Parallel</b>	<b>Lab tour</b>
	<b>16:00-18:00</b>					<b>Poster</b>		
<b>Evening</b>	<b>19:30-21:00</b>		<b>Scientific Writing Seminar</b>	<b>Banquet 18:30-21:00</b>	<b>TBD</b>			

# Wanda Realm Conference Room Layout



# Wanda Vista Conference Room Layout



## Plenary Session

	Morning, May 30 <sup>th</sup>	Morning, May 31 <sup>st</sup>	Morning, June 1 <sup>st</sup>	Morning, June 2 <sup>nd</sup>
<b>Wanda Realm</b>				
<b>Ballroom A+B</b>	<b>Opening Ceremony Plenary Talk</b>	<b>Plenary Talk</b>	<b>Plenary Talk</b>	<b>Plenary Talk Closing Ceremony</b>

## Parallel Sessions

	Afternoon, May 30 <sup>th</sup>	Afternoon, May 31 <sup>st</sup>	Afternoon, June 1 <sup>st</sup>
<b>Wanda Realm</b>			
<b>Ballroom A</b>	I-1 Young Scientist Award	II-1 High Pressure Hydrogen and Hydrides	II-2 High Pressure Hydrogen and Hydrides
	I-2 Young Scientist Award		II-3 High Pressure Hydrogen and Hydrides
<b>Ballroom B</b>	III-1 Computational physics under high pressure	III-3 Computational physics under high pressure	IV-1 High Pressure Geoscience
	III-2 Computational physics under high pressure		IV-2 High Pressure Geoscience

<b>VIP Room</b>	V-1 The 2nd Asia-Pacific User Meeting for HiBEF	VI-1 High Pressure Advanced Materials	VI-2 High Pressure Advanced Materials
	V-2 The 2nd Asia-Pacific User Meeting for HiBEF		VI-3 High Pressure Advanced Materials
<b>Wanda Vista</b>			
<b>Jiu-Hua-Shan Room</b>	VII-1 Fundamental physics at extremes	VII-3 Fundamental physics at extremes	VII-4 Fundamental physics at extremes
	VII-2 Fundamental physics at extremes		VII-5 Fundamental physics at extremes
<b>Huang-Shan Room</b>	VIII-1 Laser- and Particle Beam Fusion	VIII-3 Laser- and Particle Beam Fusion	VIII-4 Laser- and Particle Beam Fusion
	VIII-2 Laser- and Particle Beam Fusion		VIII-5 Extremes Laser- and Particle Beam Fusion
<b>Chao-Hu-Huai-He Room</b>	IX-1 Materials and Chemistry at Extremes	IX-3 Materials and Chemistry at Extremes	IX-4 Materials and Chemistry at Extremes
	IX-2 Materials and Chemistry at Extremes		IX-5 Materials and Chemistry at Extremes
<b>VIP Room</b>	X-1 Fluid Interface Instability at Extremes	X-3 Fluid Interface Instability at Extremes	XI-1 Frontier of Science and Technology at Extremes
	X-2 Fluid Interface Instability at Extremes		XI-2 Frontier of Science and Technology at Extremes

# Conference Agenda

## Plenary Talks Agenda

Thursday, May 30 <sup>th</sup>					
	08:00-08:20	<b>Opening Ceremony</b>			<b>Chair:</b> Qiang Wu
1	08:20-08:55	Hokwang Mao 100002	Center for High Pressure Science and Technology Advanced Research, China	<b>Plenary Talk:</b> Recent advances in high-pressure physics, materials & geoscience	<b>Chair:</b> Yalin Lu
2	08:55-09:30	David Crandall	Independent researcher, USA	<b>Plenary Talk:</b> High Energy Density Science in the US	
3	09:30-10:05	Thomas Cowan	Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf, Germany	<b>Plenary Talk:</b> Science based on HiBEF	
	10:05-10:50	<b>Group Photo &amp; Coffee Break</b>			
4	10:50-11:25	Viktor V. Struzhkin 100003	Geophysical Laboratory, Carnegie Institution of Washington, USA	<b>Plenary Talk:</b> Magnetic susceptibility studies of high temperature superconductivity in LaHx at high pressures	<b>Chair:</b> Eugene Gregoryanz
5	11:25-12:00	Haifeng Liu	Institute of Applied Physics and Computational Mathematics, China	<b>Plenary Talk:</b> Progress in properties of Substance at extreme condition	

<b>Friday, May 31<sup>st</sup></b>					
6	08:00-08:35	Choong Shik Yoo	Washington State University/ Department of Chemistry and Institute of Shock Physics, USA	<b>Plenary Talk:</b> Chemistry under extreme conditions	<b>Chair:</b> Thomas Cowan
7	08:35-09:10	Sakura Pascarelli	European XFEL GmbH, Germany	<b>Plenary Talk:</b> The European XFEL: start of user operation and first results	
8	09:10-09:45	Kazutaka Nakamura	Tokyo Institute of Technology, Japan	<b>Plenary Talk:</b> Coherent control of electron-phonon coupled states in GaAs using relative-phase-locked femtosecond optical pulses	
	09:45-10:05	<b>Coffee Break</b>			
9	10:05-10:40	Yanming Ma	State Key Laboratory of Superhard Materials, Jilin University, China	<b>Plenary Talk:</b> Record High Superconductivity in Sodalite-like Hydrogen-Rich Rare Earth Hydrides Stabilized at High Pressures	<b>Chair:</b> Hokwang Mao
10	10:40-11:15	Yasuo Oishi	Japan Synchrotron Radiation Research Institute, Japan	<b>Plenary Talk:</b> Recent High-Pressure Structural Analysis by Simultaneous Measurement at SPring-8	
11	11:15-11:50	Xisheng Luo	University of Science and Technology of China, China	<b>Plenary Talk:</b> Richtmyer-Meshkov instability on single-mode and quasi-single-mode interface	
<b>Saturday, June 1<sup>st</sup></b>					
12	08:00-08:35	Xian-Tu He	Institute of Applied Physics and Computational Mathematics, China	<b>Plenary Talk:</b> The Future of ICF in China	<b>Chair:</b> David Crandall

13	08:35-09:10	Jean-Luc Miquel	CEA/DAM/DAN, France	<b>Plenary Talk:</b> Status of LMJ-PETAL facility and academic program	
14	09:10-09:45	Yitzhak Maron	Weissman Institute of Sciences, Israel	<b>Plenary Talk:</b> Ion temperature and turbulence at stagnation of imploding plasmas	
	09:45-10:05	<b>Coffee Break</b>			
15	10:05-10:40	Jiamin Yang	Laser Fusion Research Center, CAEP, China	<b>Plenary Talk:</b> Experiments on radiative property of warm/hot dense matter at high power laser facilities	<b>Chair:</b> Jean-Luc Miquel
16	10:40-11:15	Jeremy Paul Chittenden	Imperial College, United Kingdom	<b>Plenary Talk:</b> Magnetic fields in inertial confinement fusion	
17	11:15-11:50	Chikang Li	University of Chicago, USA	<b>Plenary Talk:</b> Exploring high-energy-density physics with advanced nuclear diagnostics	
<b>Sunday, June 2<sup>nd</sup></b>					
18	08:00-08:35	Duanwei He	Institute of Atomic and Molecular Physics, Sichuan University, China	<b>Plenary Talk:</b> Preparation of nanostructured bulk materials under high pressure	<b>Chair:</b> Sakura Pascarelli
19	08:35-09:10	Rajeev Ahuja	Department of Physics, Uppsala University, Sweden	<b>Plenary Talk:</b> High Pressure and Hydrogen Storage Materials	
20	09:10-09:45	Yasuhiro Kuramitsu	School of Engineering, Osaka University, Japan	<b>Plenary Talk:</b> Relativistic particle acceleration with radiation pressure in extremely intense light field	
	09:45-10:05	<b>Coffee Break</b>			
21	10:05-10:40	Jianbo Hu	Institute of Fluid Physics, CAEP, China	<b>Plenary Talk:</b> Progress in the Institute of Fluid Physics, CAEP	<b>Chair:</b>



22	10:40-11:15	Dieter Hoffmann	Xi'an Jiaotong University, China	<b>Plenary Talk:</b> Accelerator Driven High Energy Density Science Related to Inertial Fusion Energy Issues	Hua Li
	11:15-11:35	<b>Welcome to ICMRE 2020</b>			<b>Chair:</b> Ke Lan
	11:35-12:00	<b>Closing Ceremony</b>			<b>Chair:</b> Dieter H. H. Hoffmann

## Parallel Talks Agenda

### I-Young Scientist Award (Wanda Realm, Ballroom-A)

Thursday, May 30 <sup>th</sup>						
<b>I-1</b> Young Scientist Award	<b>14:00-14:10</b>	<b>Introduction of Young Scientist Award</b>				<b>Chair:</b>  Simon Redfern
	<b>14:10-14:30</b>	Alexey R. Knyazev	University of California San Diego, California, USA	On the mechanism of energetic electron and X-ray beam production by intense laser irradiation of nanostructured targets		
	<b>14:30-14:50</b>	Jin Liu	Center for High Pressure Science and Technology Advanced Research, China	Fe isotope fractionation between silicate mantle and metallic core		
	<b>14:50-15:10</b>	Martin Schanz	GSI Helmholtzzentrum fuer Schwerionenforschung GmbH, Germany	PRIOR-II - Proton Radiography for FAIR		
	<b>15:10-15:30</b>	Zhigang Zhai	University of Science and Technology of China	Evolution of Shocked Finite-thickness Fluid Layer		
	<b>15:30-15:50</b>	Lifeng Wang	Institute of Applied Physics and Computational Mathematics, Beijing, China	Progress on weakly nonlinear hydrodynamic instabilities in spherical geometry		
	<b>15:50-16:10</b>	<b>Coffee Break</b>				
<b>I-2</b> Young Scientist Award	<b>16:10-16:30</b>	Cheng Ji	Center for High Pressure Science and Technology Advanced Research, China	Synchrotron X-ray diffraction of solid hydrogen at ultrahigh pressures		<b>Chair:</b>  Dieter H. H. Hoffmann
	<b>16:30-16:50</b>	Sergey Dyachkov	Dukhov Research Institute of Automatics, Russia	Failure and phase transitions in strong ceramics under shock loading		
	<b>16:50-17:10</b>	Hanyu Liu	Jilin University, China	A New Route to Room Temperature Ternary		

				Superconductors via Electron-doped Binary Hydrides under High Pressure	
	<b>17:10-17:30</b>	Qiang Xu	Institute of Fluid Physics, CAEP, China	X-ray radiation characteristic in magnetically driven plasma jet experiment	
	<b>17:30-17:50</b>	Guoqian Liao	STFC Rutherford Appleton Laboratory, United Kingdom	Extreme terahertz bursts from picosecond laser-foil interactions	
	<b>17:50-18:10</b>	TBD	TBD	TBD	

## II-High Pressure Hydrogen and Hydrides (Wanda Realm, Ballroom-A)

Friday, May 31 <sup>st</sup>					
<b>II-1</b> High Pressure Hydrogen and Hydrides	14:00-14:35	Eugene Gregoryanz	Center for High Pressure Science and Technology Advanced Research, China	<b>Keynote Talk:</b> Synthesis of Novel Hydrides at High Pressures	<b>Chair:</b> Dalladay-Simpson Philip
	14:35-15:00	Huayun Geng	Institute of Fluid Physics, CAEP, China	<b>Invited Talk:</b> Multifaceted nature of liquid-liquid transition in warm dense hydrogen	
	15:00-15:25	Lin Wang	Center for High Pressure Science and Technology Advanced Research, China	<b>Invited Talk:</b> Dehydrogenation through the pressure-induced polymerization processes of phosphine	
	15:25-15:45	Xiayan Yan	Institute of Material, CAEP, China	Hydrogen Release Behavior of Lithium Hydride under High-energy X Ray Irradiation	
	15:45-16:05	Chengjun Li	Institute of Fluid Physics, CAEP, China	Precise refractive index measurements of atomic, molecular and mixed gases at high pressures up to 60 MPa	
	16:05-18:00	<b>Coffee Break</b>			
<b>Poster</b>					
Saturday, June 1 <sup>st</sup>					
<b>II-2</b> High Pressure Hydrogen and	14:00-14:25	Dalladay-Simpson Philip	Center for High Pressure Science and Technology Advanced Research, China	<b>Invited Talk:</b> Hydrogen Chloride at Extreme Conditions	<b>Chair:</b> Eugene Gregoryanz
	14:25-14:50	Duckyoung Kim	Center for High Pressure Science and Technology	<b>Invited Talk:</b> Unprecedented physical/chemical properties in metal hydrides under pressure	

Hydrides			Advanced Research, China			
	14:50-15:10	Xue Li	Jilin University, China	Probing the high-pressure structure of TaH <sub>3</sub> via CALYPSO		
	15:10-15:30	Xiaohua Zhang	Northeast Normal University, China	Nonmetallic FeH <sub>6</sub> under High Pressure		
	15:30-15:50	Liang Sun	Laser Fusion Research Center, CAEP, China	Absolute EOS measurement for shocked CH in X-Ray radiography		
	15:50-16:10	<b>Coffee Break</b>				
<b>II-3</b> High Pressure Hydrogen and Hydrides	16:10-16:35	Mary-Ellen Donnelly	Center for High Pressure Science and Technology Advanced Research, China	<b>Invited Talk:</b> Miscibility of hydrogen and helium mixtures	<b>Chair:</b>  Lin Wang	
	16:35-17:00	Mario Santoro	National Institute of Optics of the National Council of Research (INO-CNR), Italy	<b>Invited Talk:</b> Sub-Nano Confined Matter at High Pressures		
	17:00-17:20	Chuanlong Lin	Center for High Pressure Science and Technology Advanced Research, China	Controlled formation of amorphous ice on time scale from hour to millisecond		
	17:20-17:40	Guicun Ma	Institute of Applied Physics and Computational Mathematics, Beijing, China	The high pressure equation of state of Xenon		
	17:40-18:00	Dexiang Gao 820787	Center for High Pressure Science and Technology Advanced Research, China	Phase Transitions and Chemical Reactions of Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine under High Pressure and High Temperature		

### III-Computational physics under high pressure (Wanda Realm, Ballroom B)

Thursday, May 30 <sup>th</sup>					
III-1 Computational physics under high pressure	14:00-14:25	Yanchao Wang 797835	Jilin University, Chian	<b>Invited Talk:</b> Crystal structure prediction method and its applications at high pressure	Chair:  Jian Sun
	14:25-14:50	Guochun Yang 799193	Northeast Normal University, Chian	<b>Invited Talk:</b> Superconductivity in Li6P electricle	
	14:50-15:15	Huiyang Gou 799585	Center for High Pressure Science and Technology Advanced Research, China	<b>Invited Talk:</b> Advancing Materials Functionalities Aided by Pressure: from Hard Materials to Electrides	
	15:15-15:30	Xiaoli Wang	Linyi University, China	Simple Route to Metal cyclo-N5-Salt: High-Pressure Synthesis of CuN5	
	15:30-15:45	Liang Ma	Jilin University, China	The study of structural phase transitions in Cu <sub>2-x</sub> Te under high pressure	
	15:45-16:00	Bowen Huang 820819	Hunan University, China	A Constrained Evolutionary Algorithm for the Crystal Structure Prediction of Novel Li-CO <sub>2</sub> Based Materials	
	16:00-16:20	<b>Coffee Break</b>			
III-2 Computational physics under high pressure	16:20-16:45	Jian Sun	Nanjing University, China	<b>Invited Talk:</b> Phase transition and materials design under high pressure	Chair:  Yanchao Wang
	16:45-17:10	Quan Li 799741	Jilin University, China	<b>Invited Talk:</b> Exotic Hydrogen Bonding in Compressed Ammonia Hydrides	
	17:10-17:35	Yinwei Li 799639	Jiangsu Normal University, China	<b>Invited Talk:</b> Computational Design of High-Energy Density Materials at High Pressure	
	17:35-17:50	Yuan Liu 820659	Shanghai University, China	Allotropes of tellurium from first-principles crystal structure prediction calculations under pressure	

	17:50-18:05	Xin Yang 820651	Jilin University, China	Unexpected pressure-induced decomposition of binary lanthanum intermetallic compounds	
<b>Friday, May 31<sup>st</sup></b>					
<b>III-3</b> Computational physics under high pressure	14:00-14:25	Guoying Gao 797831	Yanshan University, China	<b>Invited Talk:</b> High-pressure phases of boron arsenide with potential high thermal conductivity	<b>Chair:</b> Huiyang Gou
	14:25-14:50	Jian Lv	Jilin University, China	<b>Invited Talk:</b> Accelerating CALYPSO structure prediction by Data-driven Learning of Potential Energy Surface	
	14:50-15:05	Yan Li	Sun Yat-sen University, China	Ab initial simulations of pyrochlore compounds for nuclear waste management: chances and challenges	
	15:05-15:20	Jiayan Lin 820623	Northeast Normal University, China	Exploration of new oxidation states at high pressures	
	15:20-15:35	Hengzhong Zhang 820695	Center for High Pressure Science and Technology Advanced Research, China	Interaction and Phase Transition of Compressed NaCl Nanoparticles by Molecular Dynamics Simulations	
	15:35-15:50	Feiwu Zhang 820573	Institute of Geochemistry, CAS, China	Structure prediction and its applications on the nuclear waste management	
	15:50-18:00	<b>Coffee Break</b>			
	<b>Poster</b>				

**IV-High Pressure Geoscience (Wanda realm, Ballroom-B)**

Saturday, June 1 <sup>st</sup>						
<b>IV-1</b> High Pressure Geoscience	14:00-14:35	Jie (Jackie) Li	University of Michigan, USA	<b>Keynote Talk:</b> Driving Geodynamo through Differentiation of Molten Iron-rich Alloys at Megabar Pressures	<b>Chair:</b> Wen-Pin Hsieh	
	14:35-15:00	Jin Zhang	University of New Mexico, USA	<b>Invited Talk:</b> The extreme acoustic anisotropy and fast sound velocities of cubic high-pressure ice polymorph at Mbar pressure		
	15:00-15:25	Zhixue Du	Guangzhou Institute of Geochemistry, Chinese Academy of Sciences	<b>Invited Talk:</b> Melt at high pressures and its implications for Earth's evolution		
	15:25-15:40	Qingyang Hu	Center for High Pressure Science and Technology Advanced Research, China	Novel oxygen-rich materials under extreme conditions		
	15:40-15:55	Min Wu	Zhejiang University of Technology, China	Viscosity of carbonate melts at high pressures and temperatures		
	15:55-16:15	<b>Coffee Break</b>				
<b>IV-2</b> High Pressure Geoscience	16:15-16:40	Wen-Pin Hsieh	Institute of Earth Sciences, Academia Sinica, Taipei	<b>Invited Talk:</b> Thermal conductivity of deep Earth materials	<b>Chair:</b> Jie (Jackie) Li	
	16:40-17:05	Zhu Mao	University of Science and Technology of China	<b>Invited Talk:</b> High-Pressure Phase of Ammonia Hydrate: Implication for the Internal Structure of Ice Giants		
	17:05-17:20	Xianlong Wang	Institute of Solid State Physics, CAS, China	<b>Invited Talk:</b> Pressure-induced spin crossover of magnetic Mott-insulators: results of the hybrid functional		
	17:20-17:35	Xiao Dong	Nankai University, China	Novel high-pressure calcium carbonates		
	17:35-17:50	Shangqin Hao	University of Science and Technology of China	Elasticity of akimotoite under the mantle conditions: Implications for multiple discontinuities and seismic anisotropies at the depth of ~600-750 km in subduction zones		



**V-The 2<sup>nd</sup> Asia-Pacific User Meeting for HiBEF (Wanda Realm, VIP Room)**

Thursday, May 30 <sup>th</sup>					
<b>V-1</b> The 2nd Asia-Pacific User Meeting for HiBEF	<b>14:00-14:30</b>	C. Bahtz	Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf, Germany	Helmholtz International Beamline for Extreme Fields at the European XFEL	<b>Chair:</b>  Thomas  Cowan
	14:30-14:50	Annika Schmidt	Institute for Optics and Quantum Electronics, Friedrich-Schiller-University Jena, Germany	High-purity x-ray polarimetry	
	<b>14:50-15:10</b>	Baifei Shen	Shanghai Institute of Optics and Fine Mechanics, CAS, China	Four-Wave Mixing in Vacuum Using XFEL and Optical Lasers	
	<b>15:10-15:30</b>	Lingen Huang 820687	Helmholtz-Zentrum Dresden-Rossendorf, Germany	Using XFELs to Probe Extreme Magnetic Fields Inside Solid Targets Driven by Optical High Power Lasers at HiBEF	
	<b>15:30-15:50</b>	Charlotte Palmer	University of Oxford, UK	Particle acceleration in the cosmos	
	<b>15:00-16:10</b>	<b>Coffee Break</b>			
<b>V-2</b> The 2nd Asia-Pacific User Meeting for HiBEF	<b>16:10-16:40</b>	Jingqin Su	Laser Fusion Research Center, CAEP, China	kJ Laser	<b>Chair:</b> Hua Li
	<b>16:40-17:00</b>	Bolun Chen 798423	Laser Fusion Research Center, CAEP, China	The high spectral resolution single shot spectrometer for absorption spectrum measurements	
	<b>17:00-17:20</b>	Kaiguo Chen 820796	Institute of Fluid Physics, CAEP, China	Unexpected strength behavior of Metallic Glass in Extreme Compressions	
	<b>17:20-17:40</b>	Xueqing Yan	Peking University, China	Progress of laser acceleration in PKU	
	<b>17:40-18:00</b>	Quanping Fan 798713	Laser Fusion Research Center, CAEP, China	Quantum Free Electron Lasers: Current situations and prospects	

**VI- High Pressure Advanced Materials (Wanda Realm, VIP Room)**

<b>Friday, May 31<sup>st</sup></b>					
<b>VI-1</b> High Pressure Advanced Materials	<b>14:00-14:35</b>	Bin Chen 820863	Center for High Pressure Science and Technology Advanced Research, China	<b>Keynote Talk:</b> Strengthening Enhancement at the Lower Nanoscale	<b>Chair:</b> Duanwei He
	<b>14:35-15:00</b>	Zhisheng Zhao 821004	Yanshan University, China	<b>Invited Talk:</b> Strong, Hard, and Elastic Compressed Glassy carbon	
	<b>15:00-15:15</b>	Quanjun Li 799669	Jilin University, China	Pressure-induced Amorphization in Transition Metal Oxides	
	<b>15:15-15:30</b>	Fei Zhang 820807	Center for High Pressure Science and Technology Advanced Research, China	Phase stabilities of FCC-structured high-entropy alloys under high pressure	
	<b>15:30-15:45</b>	Kun Zhai 799814	Yanshan University, China	Pressure effect on spin-driven multiferroicity in a Y-type hexaferrite	
	<b>15:45-16:00</b>	Lijie Tan 820803	Center for High Pressure Science and Technology Advanced Research, China	Stability of Zirconium Carbide under High Pressure and High Temperature	
	<b>16:00-18:00</b>	<b>Coffee Break</b>			
<b>Poster</b>					
<b>Saturday, June 1<sup>st</sup></b>					
<b>VI-2</b> High Pressure Advanced Materials	<b>14:00-14:25</b>	Xiaohui Yu	Institute of Physics, CAS, China	<b>Invited Talk:</b> Functional hard/superhard materials	<b>Chair:</b> Bin Chen
	<b>14:25-14:50</b>	Leiming Fang 797767	Institute of Nuclear Physics and Chemistry, CAEP, China	<b>Invited Talk:</b> High pressure neutron diffraction techniques and its applications at CMRR	
	<b>14:50-15:05</b>	Qi Wang 798725	University of Science and Technology of China	Pressure Induced Structure Transition and Superconductivity in Narrow-Gap Semiconductor CsBi <sub>4</sub> Te <sub>6</sub>	

	<b>15:05-15:20</b>	Benyuan Cheng 799883	Center for High Pressure Science and Technology Advanced Research, China	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy		
	<b>15:20-15:35</b>	Mingtao Li 820677	Center for High Pressure Science and Technology Advanced Research, China	Pressure-induced Lifshitz transitions and superconductivity in NbxBi <sub>2</sub> Se <sub>3</sub>		
	<b>15:35-15:50</b>	Zewei Quan	Southern University of Science and Technology	Structural Transformations of FUNCTIONAL Nanoparticles		
	<b>15:50-16:10</b>	<b>Coffee Break</b>				
<b>VI-3</b> High Pressure Advanced Materials	<b>16:10-16:35</b>	Pei Wang 820774	Southern University of Science and Technology, China	<b>Invited Talk:</b> High Pressure Synthesis and In situ High Pressure X-ray Diffraction Study of Materials	<b>Chair:</b> Zhisheng Zhao	
	<b>16:35-16:50</b>	Jun Han 820607	Center for High Pressure Science and Technology Advanced Research, China	Study on the polymerization of sodium monoacetylene under high pressure		
	<b>16:50-17:05</b>	Qiang Tao 798397	Jilin University, China	Modulating Hardness in Molybdenum Monoborides by Adjusting an Array of Boron Zigzag Chains		
	<b>17:05-17:20</b>	Bing Li 799393	Center for High Pressure Science and Technology Advanced Research, China	Behavior of diamond anvil cell up to 4 Mbar		
	<b>17:20-17:35</b>	Fang Hong 820625	Institute of Physics, CAS, China	Functional oxide materials under high pressure		
	<b>17:35-17:50</b>	Xujie Lv 820035	Center for High Pressure Science and Technology Advanced Research, China	Metal halide perovskites under high pressure		

**VII-Fundamental Physics at Extremes (Wanda Vista, Jiu-Hua-Shan Room)**

Thursday, May 30 <sup>th</sup>					
<b>VII-1</b> Fundamental physics at extremes	14:00-14:25	Masakatsu Murakami 765991	Institute of Laser Engineering, Osaka University, Japan	<b>Invited Talk:</b> Novel approach to the Schwinger limit: Micro-bubble implosion as a plasma-optical device	<b>Chair:</b> Felix Mackenroth
	14:25-14:50	Andrea Ciardi	Sorbonne University and Paris Observatory, France	<b>Invited Talk:</b> Magnetized laser plasmas and their astrophysical applications	
	14:50-15:05	Yang Zhao 797895	Laser Fusion Research Center, CAEP, China	Experimental Study of Highly Compressed Warm Dense Aluminum and Silicon by using X-ray Absorption Spectra	
	15:05-15:20	Yanzeng Zhang 798001	University of California, San Diego, USA	Stochastic acceleration of electrons in two colliding laser waves	
	15:20-15:35	Min Lv 798029	Laser Fusion Research Center, CAEP, China	Measurement of Ionic Structure in Warm Dense Graphite from X-ray Thomson Scattering	
	15:35-15:50	Xiaoming Zhao 798099	Institute of Fluid Physics, CAEP, China	Simulation on the compressed field-reversed configuration with alpha particle self-heating	
	15:50-16:10	<b>Coffee Break</b>			
<b>VII-2</b> Fundamental physics at extremes	16:10-16:35	Felix Mackenroth	Max Planck Institute for the Physics of Complex Systems Dresden, Germany	<b>Invited Talk:</b> Nonlinear quantum electrodynamics in ultra-high intensity laser-plasma interactions	<b>Chair:</b> Masakatsu Murakami
	16:35-17:00	TBD	TBD	<b>Invited Talk:</b> TBD	
	17:00-17:15	Zuhua Yang 798991	Laser Fusion Research Center, CAEP, China	Study on reflection zone plate diffraction property and its application for ICF	
	17:15-17:30	Yong Yu 798460	Institute of Fluid Physics, CAEP, China	Ultrafast measurements of ion temperature in high-energy-density plasmas by nuclear resonance fluorescence	

	17:30-17:45	Zhiyu Zhang 798283	Laser Fusion Research Center, CAEP, China	X-ray fluorescence spectroscopy measurement of the shock compressed titanium	
	17:45-18:00	Lu Liu 100001	Graduate School of China Academy of Engineering Physics	Terahertz yield from ZnO crystal driven by strong laser pulse	
<b>Friday, May 31<sup>st</sup></b>					
<b>VII-3</b> Fundamental physics at extremes	14:00-14:25	Frank.B. Rosmej	Sorbonne University, Faculty of Science and Engineering Paris, France	<b>Invited Talk:</b> Ionization potential depression: a critical analysis	<b>Chair:</b> Yitzhak Maron
	14:25-14:50	Xiaochuan Pan	University of Chicago, USA	<b>Invited Talk:</b> TBD	
	14:50-15:15	Guoqiang Zhang	Institute of Modern Physics, Fudan University Shanghai, China	<b>Invited Talk:</b> Nuclear Physics Induced by Laser	
	15:15-15:30	Benzheng Chen 820058	Xi'an Jiaotong University, China	Particle-in-cell simulation of propagation of intense proton beams in gas plasmas: role of hydrodynamic instabilities	
	15:30-16:45	Zhenghua Yang 798653	Laser Fusion Research Center, CAEP, China	Development of curved crystal monochromatic imaging system in LFRC	
	15:45-16:00	Wenpeng Wang 799206	Shanghai Institute of Optics and Fine Mechanics, CAS, China	New Optical Manipulation of Relativistic Vortex Cutter	
	16:00-18:00	<b>Coffee Break</b>			
	<b>Poster</b>				
<b>Saturday, June 1<sup>st</sup></b>					
<b>VII-4</b> Fundamental physics at	14:00-14:25	Stefan Weber	ELI-Beamlines, Academy of Sciences of the CR	<b>Invited Talk:</b> Towards atomic diagnostics for ultra-high laser intensities	<b>Chair:</b> Olimpia Budriga
	14:25-14:50	Yongtao Zhao	Xi'an Jiaotong University, China	<b>Invited Talk:</b> New opportunities for High Energy Density Physics research with Large scale accelerators	

extremes	14:50-15:15	Mamiko Nishiuchi	National Institutes for Quantum and Radiological Science and Technology, Japan	<b>Invited Talk:</b> Extreme electric fields extracting highly charged heavy ions by PW-class short pulse high intensity laser	
	15:15-15:30	Yingbin Li 820594	Xinyang Normal University, China	Frustrated double ionization of argon atom with linearly polarized laser pulses	
	15:30-16:45	Long Xu 820133	Graduate School of China Academy of Engineering Physics	Frequency-resolved photon-electronic spectroscopy for excited state population detection	
	15:45-16:00	Aihua Liu 820173	Jilin University, China	Dynamic Interference in Photoemission by Superintense Ultrashort Extreme Ultraviolet Pulses	
	16:00-16:20	<b>Coffee Break</b>			
<b>VII-5</b> Fundamental physics at extremes	16:20-16:45	Olimpia Budriga 798821	National Institute for Laser, Plasma and Radiation Physics, Măgurele, Romania	<b>Invited Talk:</b> Modeling the interaction of an ultra-high intensity laser pulse with nanostructured targets	<b>Chair:</b> Stefan Weber
	16:45-17:10	Baisong Xie 798203	Beijing Normal University, China	<b>Invited Talk:</b> Dynamics and Pair Production in Strong Field	
	17:10-17:25	Chao Yu 820537	Nanjing University of Science and Technology, China	Effect of transition dipole on high order harmonic generation in solids	
	17:25-17:40	Weiwu Wang 820900	Laser Fusion Research Center, CAEP, China	Pulsed magnetic field produced by ultraintense laser irradiating capacitor-coil target	
	17:40-17:55	Wenjuan Lv 820665	Institute of Applied Physics and Computational Mathematics, Beijing, China	Deuterium-Tritium Fusion in Intense Laser Fields	
	17:55-18:05	Yong Hou 820678	National University of Defense Technology, China	Ionic structures and transport properties of hot dense W and U plasmas	

## VIII-Laser- and Particle Beam Fusion (Wanda Vista, Huang-Shan Room)

<b>Thursday, May 30<sup>th</sup></b>						
<b>VIII-1</b> Laser- and Particle Beam Fusion	<b>14:00-14:25</b>	Heinrich Hora 797803	University of New South Wales, Sydney Australia	<b>Invited Talk:</b> Reducing problem of very high temperatures to ignite fusion by using non-thermal pressures of extreme CPA-laser pulses	<b>Chair:</b> Xian-Tu He	
	<b>14:25-14:50</b>	Yang Li 820685	Hebei Key Laboratory of Compact Fusion, China	<b>Invited Talk:</b> Proton-boron-11 fusion revisited		
	<b>14:50-15:05</b>	Chen Zhang 798043	Laser Fusion Research Center, CAEP, China	Precise determination of on-target M-band X-ray via preheating and shock propagation simulation		
	<b>15:05-15:20</b>	Jian Wu 821001	Xi'an Jiaotong University, China	Experiments of wire array Z pinch on "Qin-1" facility		
	<b>15:20-15:35</b>	Zhurong Cao 798925	Laser Fusion Research Center, CAEP, China	A novel transmission-type X-ray low-pass filter and its application in ICF diagnose		
	<b>15:35-15:50</b>	Yudong Pu 799270	Laser Fusion Research Center, CAEP, China	Implosion experiments using deuterated foam ball doped with gold grains on the SG-III prototype laser facility		
	<b>15:50-16:10</b>	<b>Coffee Break</b>				
<b>VIII-2</b> Laser- and Particle Beam Fusion	<b>16:10-16:35</b>	Vladimir Tikhonchuk 797987	ELI-Beamlines, Institute of Physics CAS, Czech Republic and CELIA, University of Bordeaux, France	<b>Invited Talk:</b> Collective Absorption of Laser Radiation in Plasma in Shock Ignition Conditions	<b>Chair:</b> Rafael Ramis Abril	
	<b>16:35-17:00</b>	Yutong Li 799318	Institute of Physics, CAS, China	<b>Invited Talk:</b> Diagnosing forward fast electrons in femtosecond laser-foil interactions with terahertz radiation		
	<b>17:00-17:25</b>	Jingwei Wang 823058	Shanghai Institute of Optics and Fine Mechanics, CAS, China	<b>Invited Talk:</b> High quality X-ray/gamma-ray radiation from a plasma undulator		

	17:25-17:40	Zhimin Hu 798936	Laser Fusion Research Center, CAEP, China	DD Implosion Mixing Effect Study Using X-ray Spectroscopy	
	17:40-17:55	Chunhui Yan 798070	China Academy of Engineering Physics	The second type of sharp-front wave mechanism of strong magnetic field diffusion in metal	
	17:55-18:05	Zhongjing Chen 798219	Laser Fusion Research Center, CAEP, China	Measurement of the hot-spot self-emission images with KB microscopy and x-ray framing camera	
<b>Friday, May 31<sup>st</sup></b>					
<b>VIII-3</b> Laser- and Particle Beam Fusion	14:00-14:25	Rafael Ramis Abril 799087	E.T.S.I. Aeron áutica y del Espacio - Universidad Politécnica de Madrid, Spain	<b>Invited Talk:</b> Three-dimensional simulation of hohlraum targets	<b>Chair:</b> Vladimir Tikhonchuk
	14:25-14:50	Hideaki Takabe	Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf, Germany and Osaka University, Japan	<b>Invited Talk:</b> Theory of turbulent mixing	
	14:50-15:15	Feng Wang	Laser Fusion Research Center, CAEP, China	<b>Invited Talk:</b> Recent Progress of ICF Diagnostic techniques based on Shenguang laser facility in China	
	15:15-15:30	Xing Zhang 799215	Laser Fusion Research Center, CAEP, China	The hot-spot shape in the laser driven implosions diagnosed by a spatial flat response KB X-ray microscope	
	15:30-15:45	Sebastian Klammes 797523	GSI Helmholtz Centre for Heavy Ion Research, Germany	Very cold and very short ultra-relativistic heavy-ion bunches from the FAIR SIS100 for plasma physics experiments	
	15:45-16:00	Zhichao Li 798332	Laser Fusion Research Center, CAEP, China	Experimental study of the plasma behavior in the key regions of ICF Hohlraum in SG-series laser facilities	
	16:00-18:00	<b>Coffee Break</b>			



<b>Poster</b>					
<b>Saturday, June 1<sup>st</sup></b>					
<b>VIII-4</b> Laser- and Particle Beam Fusion	<b>14:00-14:25</b>	Kunioki Mima 798585	The Graduate School for the Creation of New Photonics Industries, Japan	<b>Invited Talk:</b> Researches on laser driven neutron source and applications in Japan	<b>Chair:</b> José Javier Honrubia Checa
	<b>14:25-14:50</b>	Xian-Tu He	Center for Applied Physics and Technology, Peking University	<b>Invited Talk:</b> Energy band theory for warm dense matter	
	<b>14:50-15:05</b>	Tao Gong 798867	Laser Fusion Research Center, CAEP, China	Effect of inner-cone beams on the stimulated scattering processes of outer-cone beams in a gas-filled hohlraum	
	<b>15:05-15:20</b>	Wenyi Huo 797911	ELI-Beamlines, Institute of Physics, Academy of Sciences of the Czech Republic, Czech	Multi-dimensional magnetohydrodynamic simulations of the laboratory astrophysics experiments on the PALS laser facility	
	<b>15:20-15:35</b>	Lifei Hou 798541	Laser Fusion Research Center, CAEP, China	Improvement of Specific-Region Flux Diagnosis for Inertial Confinement Fusion Experiments	
	<b>15:35-15:50</b>	Jingwen Ba 820663	Institute of Material, CAEP, China	H/He co-irradiation induced structural modification and the evolution of irradiations in Li <sub>4</sub> SiO <sub>4</sub>	
	<b>15:50-16:10</b>	<b>Coffee Break</b>			
<b>VIII-5</b> Laser- and Particle Beam Fusion	<b>16:10-16:35</b>	José Javier Honrubia Checa	Universidad Politécnica de Madrid, Spain	<b>Invited Talk:</b> Magnetic field amplification in laser-driven cylindrical implosions. Application to the guiding of charged-particle beams	<b>Chair:</b> Kunioki Mima
	<b>16:35-17:00</b>	Weimin Zhou 820977	Laser Fusion Research Center, CAEP, China	<b>Invited Talk:</b> X-ray point-projection backlight radiography at the picosecond petawatt laser facilities	
	<b>17:00-17:15</b>	Chao Lu 798705	ELI-Beamlines, Institute of Physics CAS, Dolní Břežany,	Marshak wave: Propagation of Radiation and Thermal Fronts in a Plasma	

			Czech Republic	
	<b>17:15-17:30</b>	Qingsong Feng 763557	Institute of Applied Physics and Computational Mathematics, Beijing, China	Suppression of Stimulated Raman Scattering and Hot Electrons Generation due to Langmuir Decay Instability Cascade
	<b>17:30-17:45</b>	Fuyuan Wu 820813	National University of Defense Technology, China	Numerical investigation on the effects of self-generated magnetic field in laser driven inertial confinement fusion
	<b>17:45-18:00</b>	Kuan Ren 799798	Laser Fusion Research Center, CAEP, China	First exploration of radiation temperatures of the laser spot, re-emitting wall and entire hohlraum drive source

**IX-Materials and Chemistry at Extremes (Wanda Vista, Chao-Hu-Huai-He Room)**

Thursday, May 30 <sup>th</sup>						
<b>IX-1</b> Materials and Chemistry at Extremes	<b>14:00-14:35</b>	Kuo Li 820063	Center for High Pressure Science and Technology Advanced Research, China	<b>Keynote Talk:</b> Topochemical polymerization under high pressure	<b>Chair:</b> Guoqiang Yang	
	<b>14:35-15:10</b>	Bo Zou 798449	Jilin University, China	<b>Keynote Talk:</b> Pressure Induced Emission		
	<b>15:10-15:25</b>	TBD	TBD	TBD		
	<b>15:25-15:40</b>	Man-Rong Li 820892	Sun Yat-Sen University	Predicted Polymorph Variation of Manganese Tellurate at High Pressure		
	<b>15:40-15:55</b>	TBD	TBD	TBD		
	<b>15:55-16:15</b>	<b>Coffee Break</b>				
<b>IX-2</b> Materials and Chemistry at Extremes	<b>16:15-16:40</b>	Li Lei 799655	Sichuan University, China	<b>Invited Talk:</b> Nitrogen at extremes	<b>Chair:</b> Yanqiang Yang	
	<b>16:40-17:05</b>	Guanjun Xiao 820691	Jilin University, China	<b>Invited Talk:</b> Pressure-Induced Emission of One-Dimensional Organic Tin Bromide Perovskites		
	<b>17:05-17:20</b>	Saqib Rahman 820887	Center for High Pressure Science and Technology Advanced Research, China	Tuning the photoresponse of nano-heterojunction: Pressure-induced inverse photoconductance in functionalized WO <sub>3</sub> nanocuboids		
	<b>17:20-17:35</b>	Jianhong Dai 820800	Institute of Physics, CAS, China	Color and luminescence dissymmetry factor tuned by mechanical pressure in a circularly polarized luminescent material		
	<b>17:35-17:50</b>	Junjie Guan 820823	Center for High Pressure Science and Technology Advanced Research, China	Tunable Photoluminescence of Organic Molecular Crystals under High Pressure		
	<b>17:50-18:05</b>	Xiaoyu Sun 798751	University of Science and Technology of China	New Phases Discovery of $\epsilon$ -CL-20 under High Pressure up to 60 GPa		

<b>Friday, May 31<sup>st</sup></b>					
<b>IX-3</b> Materials and Chemistry at Extremes	14:00-14:25	Guoqiang Yang 820931	Institute of Chemistry, CAS, China	<b>Invited Talk:</b> Supercompressing glassy sulfur	<b>Chair:</b> Kuo Li
	14:25-14:50	Yuguo Ma 820675	Peking University, China	<b>Invited Talk:</b> Reaction under Pressure: Compression-Induce Polymerization and Isomerization	
	14:50-15:05	Chan Gao 820947	University of Science and Technology of China	Conformer Modifications and Electronic Structural Changes in 3,3'-diamino-4,4'-azoxyfurazan (DAAF) under high pressure	
	15:05-15:20	Zhilei Sui 798475	Institute of Fluid Physics, CAEP, China	Pressure-induced Phase Transitions of Energetic Material $\delta$ -HMX	
	15:20-15:35	Zilong Xu 798741	University of Science and Technology of China	Pressure- and Temperature-Dependent Structural Stability and Photoluminescence properties of LLM-105 Crystal	
	15:35-15:50	Hao Li 820668	Institute of Nuclear Physics and Chemistry, CAEP, China	Progress in Microstructure and Phase Transition of HMX by In-situ Neutron Diffraction	
	15:50-16:05	Yapei Li 820795	Center for High Pressure Science and Technology Advanced Research, China	The Structural Transformation and Properties of Graphdiyne and Its Derivatives under High Pressure	
	16:05-18:00	<b>Coffee Break</b>			
<b>Poster</b>					
<b>Saturday, June 1<sup>st</sup></b>					
<b>IX-4</b>	14:00-14:25	Lei Su 820929	Center for High Pressure Science and Technology	<b>Invited Talk:</b> Polymerization of room temperature ionic liquid under high pressure	<b>Chair:</b> Bo Zou

Materials and Chemistry at Extremes			Advanced Research, China		
	14:25-14:50	Yongtao Zou 820736	Southern University of Science and Technology, China	<b>Invited Talk:</b> Structural Stability, Thermoelasticity and Strength of Materials at High P-T: An Integrated Ultrasonic Interferometry and Synchrotron X-ray Study	
	14:50-15:05	Liuxiang Yang	Center for High Pressure Science and Technology Advanced Research, China	Melting temperature evolution of diamond under high pressure	
	15:05-15:20	Liang Guo 799239	Laser Fusion Research Center, CAEP, China	Experimental study on the shell movements of double-shell capsules in low convergence ratio implosions	
	15:20-15:35	Leilei Zhang 820635	Institute of Fluid Physics, CAEP, China	High-Pressure Synthesis and Characterization of CeOCl	
	15:35-15:50	Chengliang Lin 820739	Graduate School of China Academy of Engineering Physics	Ionization potential depression in warm dense matters	
	15:50-16:10	<b>Coffee Break</b>			
IX-5 Materials and Chemistry at Extremes	16:10-16:35	Yanqiang Yang	Institute of Fluid Physics, CAEP, China	<b>Invited Talk:</b> Electron-phonon coupling and acoustic velocity measurement	<b>Chair:</b> Lei Su
	16:35-17:00	Stephen Sharma	University of California, Berkeley, USA	<b>Invited Talk:</b> Stretching the Horizon of the Observeon Apeirogon	
	17:00-17:15	Guilin Wang 799211	Institute of Fluid Physics, CAEP, China	Dynamic material properties of tantalum under 30-160 GPa ramp compression on PTS facility	
	17:15-17:30	Tao Li 820773	Beijing Computational Science Research Center, China	Deuteron Disintegration Induced by Electron Recollision	
	17:30-17:45	Binqiang Luo 799703	Institute of Fluid Physics, CAEP, China	Dynamic Property of single crystal tantalum under ramp wave compression	
	17:45-18:00	Longyu Duan	University of Science and Technology of China	Thermodynamic and elastic properties of grossular at high pressures and high temperatures: A first-principles study	

## X-Fluid Interface Instability at Extremes (Wanda Vista, VIP Room)

<b>Thursday, May 30<sup>th</sup></b>						
<b>X-1</b> Fluid Interface Instability at Extremes	<b>14:00-14:35</b>	Shengnian Luo	Southwest Jiaotong University, China	<b>Keynote Talk:</b> Probe structural dynamics at dynamic extremes with advanced X-ray sources	<b>Chair: TBD</b>	
	<b>14:35-15:00</b>	Rui Yan	University of Science and Technology of China	<b>Invited Talk:</b> Laser Plasma Instabilities at Large-Angle Oblique Laser Incidence		
	<b>15:00-15:15</b>	Jingyue Yin 799379	Institute of Applied Physics and Computational Mathematics, Beijing, China	Numerical study of shock-dusty gas cylinder interaction		
	<b>15:15-15:30</b>	Xilong Huang 798075	Institute of Fluid Physics, CAEP, China	Experimental investigation on the evolution of Rayleigh-Taylor instability at tilted interface		
	<b>15:30-15:45</b>	Xu Guo 799897	University of Science and Technology of China	Bubble Competition in Richtmyer-Meshkov Instability		
	<b>15:45-16:00</b>	Tao Wang 798687	Institute of Fluid Physics, CAEP, China	Numerical investigations of metal interface instability in cylindrical geometry		
	<b>16:00-16:20</b>	<b>Coffee Break</b>				
<b>X-2</b> Fluid Interface Instability at Extremes	<b>16:20-16:55</b>	Baolin Tian	Institute of Applied Physics and Computational Mathematics, Beijing, China	<b>Invited Talk: TBD</b>	<b>Chair: TBD</b>	
	<b>16:55-17:20</b>	Qiang Zhang	City University of Hong Kong	<b>Invited Talk: TBD</b>		
	<b>17:20-17:35</b>	Yuan Li 798935	King Abdullah University of Science and Technology	Linear stability of impulsively accelerated density interface in ideal two-fluid plasma		
	<b>17:35-17:50</b>	Zhangbo Zhou 820041	University of Science and Technology of China	Mode Coupling effect on Converging Richtmyer-Meshkov Instability		
	<b>17:50-18:05</b>	Yongteng Yuan 798753	Laser Fusion Research Center, CAEP, China	Experimental development of hydrodynamic instabilities on Shenguang laser facilities		

<b>Friday, May 31<sup>st</sup></b>					
<b>X-3</b> Fluid Interface Instability at Extremes	<b>14:00-14:25</b>	范征峰 100051	Institute of Applied Physics and Computational Mathematics, Beijing, China	<b>Invited Talk:</b> A theoretical model for low-mode asymmetry in ICF implosions	<b>Chair: TBD</b>
	<b>14:25-14:50</b>	Shenghong Huang 820877	University of Science and Technology of China	<b>Invited Talk:</b> Multiscale numerical simulations on Richtmyer-Meshkov instability under extreme conditions	
	<b>14:50-15:05</b>	Wenbin Zhang 799051	Institute of Fluid Physics, CAEP, China	The instability of a water-gas interface with planar shape impacted by a rippled shock	
	<b>15:05-15:20</b>	Ming Li 820367	University of Science and Technology of China	Experimental Investigation on Nonlinear Converging Richtmyer-Meshkov Instability	
	<b>15:20-15:35</b>	Shaolong Zhang	Institute of Fluid Physics, CAEP, China	Experimental investigation of Richtmyer-Meshkov instability in convergent interface between solid tin and foamed polystyrene	
	<b>15:35-15:50</b>	Juchun Ding	University of Science and Technology of China	Convergent Richtmyer-Meshkov instability on a heavy gas layer with perturbed outer surface	
	<b>15:50-16:05</b>	TBD	TBD	TBD	
	<b>16:05-18:00</b>	<b>Coffee Break</b>			
	<b>Poster</b>				

## XI-Frontier of Science and Technology at Extremes (Wanda Vista, VIP Room)

Saturday (June 1st)					
<b>XI-1</b> Frontier of Science and Technology at Extremes	14:00-14:30	Kouhei Ichiyanagi 797177	Jichi Medical University, Japan	<b>Invited Talk:</b> In-situ observation of microstructure deformation in shock compressed polycrystalline aluminum using synchrotron source based time-resolved X-ray diffraction	<b>Chair:</b> Wenge Yang
	14:30-15:00	Xianming Zhou	Institute of Fluid Physics, CAEP, China	<b>Invited Talk:</b> Polymorphic dielectric properties of shocked sapphire and GGG single crystals	
	15:00-15:15	TBD	TBD	TBD	
	15:15-15:30	Bingbing Zhang 820915	Institute of High Energy Physics, CAS, China	Structural Dynamic Beamline at High Energy Photon Source	
	15:30-15:45	Genbai Chu 798849	Laser Fusion Research Center, CAEP, China	High-energy X-ray radiography of laser shock loaded metal dynamic fragmentation using high-intensity short-pulse laser	
	15:45-16:00	Jiangtao Li 820998	Institute of Fluid Physics, CAEP, China	Equation of state and phase diagram of 4H-silicon carbide investigated by laser shock compression	
	16:00-16:20	<b>Coffee Break</b>			
<b>XI-2</b> Frontier of Science and Technology at Extremes	16:20-16:50	Wenge Yang 820531	Center for High Pressure Science and Technology Advanced Research, China	<b>Invited Talk:</b> Emerging materials from pressure induced electronic transition	<b>Chair:</b> Kouhei Ichiyanagi
	16:50-17:20	Guiji Wang 799381	Institute of Fluid Physics, CAEP, China	<b>Invited Talk:</b> Dynamic Responses of Polycrystalline NiTi Alloy under Shock Compression: Experiments and Molecular Dynamics Simulations	
	17:20-17:35	Min Shui 798549	Laser Fusion Research Center, CAEP, China	Observation of the Tin ejecta entering into foam through high-energy X-ray radiography using	



				high-intensity short-pulse laser	
	<b>17:35-17:50</b>	Dawu Xiao 820872	Institute of Material, CAEP, China	Influence of grain boundary segregation on the dynamic damage evolution in Ni alloy under laser shock loading	
	<b>17:50-16:05</b>	Jing Li	Institute of Fluid Physics, CAEP, China	Methods and techniques of high pressure physics research	

## Posters

### Best Poster Award (43 presentations)

Wanda Realm, at the lobby outside Ballroom A+B. You can hang your poster starting from 19:00, May 30<sup>th</sup>.

No.	Registration No.	Name	Affiliation	Title
1	763145	Haichao Ren	China Academy of Engineering Physics	Ab Initio Dynamics Simulation of the Potassium Channel Protein Ligand Studied with Two-dimensional Infrared Spectra
2	765953	Weipeng Yao	Peking University, China	Kinetic particle-in-cell simulation of astrophysical relativistic jet transport in ambient environment
3	820517	Qingzheng Lyu	Institute of Physics, CAS, China	Accumulation of Bosons between Fermions due to the Pauli Exclusion Principle
4	820521	Qingzheng Lyu	Institute of Physics, CAS, China	Role of the Spatial Inhomogeneity on the Laser-Induced Vacuum Decay
5	820802	Qian Ma	National University of Defense Technology, China	Extremely low electron-ion temperature relaxation rates in warm dense hydrogen: Interplay between quantum electrons and coupled ions
6	820515	Qingzheng Lyu	Institute of Physics, CAS, China	Quantum-Mechanical Approach to the Laser-Assisted Vacuum Decay
7	797917	Lu Yu	Institute of Fluid Physics, CAEP, China	1-D Numerical Simulation on Magnetic Driven Solid Liner Implosion Process

8	798260	Yuanyuan Li	Institute of Fluid Physics, CAEP, China	Dynamic strength of diamond-SiC composite: Influence of diamond content and design
9	799679	Shan Liu	Sichuan University, China	Low-temperature Raman Spectroscopy of cg-N and $\lambda$ -N
10	799759	He Wang	University of Science and Technology of China	On RR $\rightarrow$ MR transition in cylindrically converging shock wave reflection
11	799777	Yunxia Han	Sichuan University, China	Growth and sintering behavior of boron suboxide (B <sub>6</sub> O) in B-B <sub>2</sub> O <sub>3</sub> system at high-pressure
12	799816	Feng Zhang	Sichuan University, China	High-pressure synthesis and characterization of K <sub>0.3</sub> Ga <sub>2</sub> O <sub>3</sub>
13	820487	Cheng Lu	University of Nevada, Las Vegas, USA	Unraveling structure and bonding evolution of newly discovered iron oxide FeO <sub>2</sub>
14	820664	Xiaoyu Wang	Yanshan University, China	New Hexagonal Boron Nitride Polytypes with Triple-layer Periodicity
15	820693	Zhenhua Chi	Hefei Institute of Physical Science, CAS, China	SUPERCONDUCTIVITY in PRISTINE 2H <sub>a</sub> -MoS <sub>2</sub> at ULTRAHIGH PRESSURE
16	820698	Sun lei	Yanshan University, China	First-principles Investigations on Metallic Silicon Allotropes
17	820792	Hao Liang	Sichuan University, China	Unusual size effect of HfB <sub>2</sub> under non-hydrostatic compression
18	820805	Haihua Chen	Qinghai university, China	Equation of state and the yield strength of TaB, TaB <sub>2</sub> were investigated at high pressure using synchrotron x-ray diffraction
19	820846	Shuangshuang Zhang	Yanshan University, China	Superhard Semiconducting Amorphous Carbon
20	820853	Xin Chen	Qufu Normal University, China	Boron-oxygen complex yields n-type surface layer in semiconducting diamond
21	820868	Baozhong Li	Yanshan	Superhard three-dimensional B <sub>2</sub> C <sub>3</sub> N <sub>2</sub> with two-dimensional

			University, China	metallicity
22	820874	Zhikang Yuan	Yanshan University, China	Structural stability, electronic structure, and superconductivity of cubic sodium hexaboride NaB <sub>6</sub> from first-principle calculations
23	820876	Mengdong Ma	Yanshan University, China	High Temperature and High Pressure Sintering of Nanocrystalline B <sub>4</sub> C/SiC Composite Ceramics
24	820926	Xiangting Ren	Southern University of Science and Technology, China	Accessing New Properties of Halide Perovskites through Lattice Compression
25	820949	Bing Liu	Yanshan University, China	Mechanical properties of TiO <sub>2</sub> Nanoceramic through High Pressure Sintering
26	821011	Azkar Saeed Ahmad	Southern University of Science and Technology, China	Pressure-induced metallization in molybdenum disulphide
27	820725	Ting Si	University of Science and Technology of China	Development of a three-dimensional gas cylinder under reshock conditions
28	820899	Jianyu Xu	University of Science and Technology of China	Smoothed particle hydrodynamics simulation on Richtmyer-Meshkov instability induced by strong cylindrical convergent shock
29	820901	Yu Ding	University of Science and Technology of China	MD simulation on similarity of Richtmyer-Meshkov instability at microscopic metal/gas interface under strong shock impacting
30	820917	Jiawei Zhang	University of Science and Technology of	Extra acceleration characteristics of metal/gas interface induced by ionization under extreme shock compression conditions

			China	
31	797933	Hang Li	Laser Fusion Research Center, CAEP, China	Observations of the hydrodynamic phenomena of plasma interaction in hohlraums
32	798278	Yan Zhao	Laser Fusion Research Center, CAEP, China	Multispectral Imaging of Continuum Emission for DD Implosion Experiment
33	798873	Zanyang Guan	China Academy of Engineering Physics	Preliminary study of driven uniformity by VISAR
34	799873	アキト イノウエ	Osaka University, Japan	Statistical acceleration of protons in terms of micro-bubble implosion
35	820596	Sasa Song	Xi'an Jiaotong University, China	Investigation of ion energy and angular distribution in a dc-biased, collisional plasma sheath
36	820959	Lian Wang	University of Science and Technology of China	Two plasmon decay by lasers with large incidence angles
37	820989	Ji Yu	University of Science and Technology of China	Rescatter of Stimulated Raman Scattering Amplification of a secondary SRS light in a pico-second laser plasma instability scenario
38	797887	Jianyun Wang	Jilin University, China	High-Pressure Evolution of Unexpected Chemical Bonding and Promising Superconducting properties of YB6
39	798635	Yihan Liang	Institute of Fluid Physics, CAEP, China	Preliminary simulation modeling on XFEL-materials damage process
40	820811	Shuai Shen	Institute of Fluid Physics, CAEP, China	Experimental Investigation on Effect of Viscosity on Droplet Deformation Process at Low Weber Number
41	820993	Shifei Liu	National University of	Repetitive Operation of Compact High Voltage Pulsed Accelerator based on Comb-type Forming Line

			Defense Technology, China	
42	799285	Yuanqi Jiang	Nanchang Normal University, China	Correlation between the chemical order and nature property of Cu-centered Cu-Zr icosahedral clusters
43	798003	Yanzeng Zhang	UCSD	Stochastic acceleration of electrons in the laser and quasi-static electric and magnetic fields

**Poster (86 presentations)**

**Wanda Vista, at the lobby outside Jiu-Hua-Shan Room, Huang-Shan Room and Chao-Hu-Huai-He Room.** You can hang your poster starting from 14:00, May 30<sup>th</sup>.

No.	Registration No.	Name	Affiliation	Title	Field
1	797873	Bo Xiao	Institute of Fluid Physics, CAEP, China	The second type of sharp-front wave mechanism of strong magnetic field diffusion in metal	Fundamental Physics at Extremes
2	797970	Guo Fan	Institute of Fluid Physics, CAEP, China	Simulation and experimental validation of fault modes of an induction voltage adder	Fundamental Physics at Extremes
3	798679	Rui Qin	Institute of Fluid Physics, CAEP, China	Strain effect of high harmonic generation in two dimensional materials	Fundamental Physics at Extremes
4	798109	Dong Geng	Institute of Fluid Physics, CAEP, China	A numerical method for analyzing plasma expansion in rod-pinch diode	Fundamental Physics at Extremes
5	798861	Xiu Zhang	Institute of Fluid Physics, CAEP, China	Initial Decomposition of the Co-crystal of TNT/CL-20: Sensitivity Decrease under Shock Loading	Fundamental Physics at Extremes
6	820088	Jian Gao	Shanghai Jiao Tong University, China	Surface deformation induced harmonic generation in non-specular direction from relativistic plasma surfaces	Fundamental Physics at Extremes
7	763551	Zhao Gao	Institute of Fluid Physics, CAEP, China	etraphenylethylene Substituted Phenanthro[9,10-d]imidazole for Linear Fluorescent Response of the External Pressure upto 10.1 GPa	High Pressure Physics and Materials Science
8	797658	Xuhai Li	Institute of Fluid	Synthesis of Sodium Molybdenum/Tungsten	High Pressure Physics and

			Physics, CAEP, China	Bronzes Through High-pressure Solid-state Reaction	Materials Science
9	797661	Nianfeng He	Institute of Fluid Physics, CAEP, China	Seamless Coupling of Molecular Dynamics and Material Point Method for Multiscale Simulation	High Pressure Physics and Materials Science
10	797679	Mingxian Kan	Institute of Fluid Physics, CAEP, China	Verification and validation of two dimensional magnetically driven simulation code MDSC2	High Pressure Physics and Materials Science
11	797749	Meiyi Li	Center for High Pressure Science and Technology Advanced Research, China	Pressure-induced antiferromagnetic phase transition in PrSb	High Pressure Physics and Materials Science
12	797754	Wencan Guo	Institute of Fluid Physics, CAEP, China	Experimental study of aluminized RDX under laser ablation in air and argon	High Pressure Physics and Materials Science
13	797806	Lanting Shi	Institute of Fluid Physics, CAEP, China	Possible lower energy isomer of carbon clusters $C_n$ ( $n=11, 12$ ) via particle swarm optimization algorithm: ab initio investigation	High Pressure Physics and Materials Science
14	798077	Hong Xiao	Center for High Pressure Science and Technology Advanced Research, China	Pressure effects on iron-based superconductor $CaFe_{0.88}Co_{0.12}AsF$	High Pressure Physics and Materials Science
15	798456	Songlin Zheng	Institute of Fluid Physics, CAEP, China	Point defect sink strength of low-angle tilt grain boundaries: a phase field dislocation climb model	High Pressure Physics and Materials Science
16	798643	Yaoyao Huang	Institute of Fluid Physics, CAEP, China	Optical directional amplification in a three-mode optomechanical system	High Pressure Physics and Materials Science
17	798798	Ling Hu	Institute of Fluid	Constitutive Model of Long-term neutron	High Pressure Physics and



			Physics, CAEP, China	irradiated Al-Mg-Si alloy under High Temperature and High Strain Rate	Materials Science
18	798783	Yuanchao Gan	Institute of Fluid Physics, CAEP, China	Dynamic crystal plasticity model for magnesium under shock loading	High Pressure Physics and Materials Science
19	798897	Xiaohui Chen	Institute of Fluid Physics, CAEP, China	High-Pressure X-ray Diffraction Experiments on Shenguang-II laser facility	High Pressure Physics and Materials Science
20	798914	Yulong Li	Laser Fusion Research Center, CAEP, China	A Universal Sweep Speed Correction Method for Optical Streak Camera	High Pressure Physics and Materials Science
21	798971	Liang Xu	Institute of Fluid Physics, CAEP, China	The anomalies in molten tin	High Pressure Physics and Materials Science
22	799159	Chao Lu	Institute of Material, CAEP, China	Spallation Study of Cerium by Ultra-high Energy Laser Induced Shock Loading	High Pressure Physics and Materials Science
23	799447	Qing Dong	Jilin University, China	Pressure-induced phase transition to non-layered structure and the enhanced superconductivity in 1T-TaS <sub>2</sub>	High Pressure Physics and Materials Science
24	799693	Jiawei Zhang	Sichuan University, China	Experimental study on the pressure-generation efficiency and pressure-seal mechanism for large volume cubic press	High Pressure Physics and Materials Science
25	799701	Chaoyu He	Xiangtan University, China	New carbon allotropes identified in stochastic group and graph constrained searches by RG2 code	High Pressure Physics and Materials Science
26	820017	Qin Qin	Center for High Pressure Science and Technology Advanced Research, China	The Structure Change of Ca <sub>2</sub> N with Different Medium under High Pressure	High Pressure Physics and Materials Science

27	820306	Yangchun Zou	Institute of Fluid Physics, CAEP, China	Investigation on the efficiency and accuracy of methods for calculating melting curve by molecular dynamic simulation	High Pressure Physics and Materials Science
28	820310	Xiaobing Fan	Institute of Fluid Physics, CAEP, China	Precise measurement and control of temperature in a diamond anvil cell with resistive heating	High Pressure Physics and Materials Science
29	820312	Dong Lai	Jilin University, China	Effect of the structure on physics properties of Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub>	High Pressure Physics and Materials Science
30	820617	Junkai Zhang	Jilin University, China	Correlation between Structural Changes and Electrical Transport Properties of Spinel ZnFe <sub>2</sub> O <sub>4</sub> Nanoparticles under high Pressure	High Pressure Physics and Materials Science
30	820618	Xuejiao Ma	Yanbian University, China	Phase Diagram and Bonding States of Ir-P Binary Compounds at High Pressures	High Pressure Physics and Materials Science
31	820658	Zitai Liang	Yanshan University, China	Small Onion-like BN Leads to Ultrafine-twinned Cubic BN	High Pressure Physics and Materials Science
32	820683	Chao Liu	Shanghai University, China	2D selenium allotropes from first principles and swarm intelligence	High Pressure Physics and Materials Science
33	820730	Lingjuan Hao	Yanshan University, China	Electronic structure and superconductivity in hexagonal Li <sub>3</sub> B <sub>2</sub> and Li <sub>2</sub> B <sub>2</sub> H phases under pressure	High Pressure Physics and Materials Science
34	820760	Qiaoyi Han	Yanshan University, China	Germanium allotropes decompressed from high-pressure $\beta$ -tin phase	High Pressure Physics and Materials Science
35	820790	Qi Gao	Yanshan University, China	Study on Diamond and Cubic Boron Nitride Composites	High Pressure Physics and Materials Science
36	820804	Jianting Xin	Laser Fusion Research Center, CAEP, China	Experimental investigation of dynamic fragmentation of laser shock-loaded by soft recovery and X-ray radiography	High Pressure Physics and Materials Science
37	820841	Tao Xi	Laser Fusion Research Center, CAEP, China	Investigation of dynamic fragmentation on laser shock-loaded tin at different phases via integrated diagnostic techniques	High Pressure Physics and Materials Science
38	820845	Hui Tian	Jilin University, China	Pressure impact on the crystal structure, optical, and transport properties in high	High Pressure Physics and Materials Science

				mobility semiconductor Bi <sub>2</sub> O <sub>2</sub> Se	
39	820920	Hu Cheng	Southern University of Science and Technology, China	A convenient dynamic loading device based on symmetric diamond anvil cells	High Pressure Physics and Materials Science
40	820934	Yan Li	Sun Yat-sen University, China	Surfaces/Interfaces Modification for Vacancies Enhancing Lithium Storage Capability of Cu <sub>2</sub> O Ultrasmall Nanocrystals	High Pressure Physics and Materials Science
41	820955	Dong MingDong	Southern University of Science and Technology, China	Synthesis, structure and physical properties of FeN	High Pressure Physics and Materials Science
42	820969	Xiping Chen	Institute of Nuclear Physics and Chemistry, CAEP, China	The Recent Progress of High Pressure Neutron Diffractometer at CMRR	High Pressure Physics and Materials Science
43	820979	Zheng Wei	Southern University of Science and Technology, China	Preparation and Characterization of Large Single Crystal Cubic Boron Nitride at High Temperature and Pressure	High Pressure Physics and Materials Science
44	820981	Guozhu Song	Southern University of Science and Technology, China	Temperature and pressure calibration of Ultra High Pressure Assembly of 1000T cubic press	High Pressure Physics and Materials Science
45	820995	Dongliang Yang	Institute of High Energy Physics, CAS, China	Rapid compression combining with time-resolved X-ray diffraction	High Pressure Physics and Materials Science
46	821002	Ruifang	Southern	Kinetics of gas hydrate precipitation and	High Pressure Physics and

		Huang	University of Science and Technology, China	decomposition via X-ray and neutron diffraction	Materials Science
47	797741	Wanggang Hua	Institute of Fluid Physics, CAEP, China	Developments of Simulation Codes for Magnetic Driven Experiments in IFP	Interface Instabilities at Extremes
48	798685	Weirong Wang	Institute of Fluid Physics, CAEP, China	Numerical and Experimental Study On Richtmyer-Meshkov instability of Metal-Gas/Vacuum Interface at extreme compressing conditions	Interface Instabilities at Extremes
49	798749	Chuansheng Yin	Laser Fusion Research Center, CAEP, China	Laser-driven Reservoir Experiment of Rayleigh-Taylor Instability in the Solid-state Metal at Megabar Pressures	Interface Instabilities at Extremes
50	798755	Shenfei Liao	Institute of Fluid Physics, CAEP, China	Experimental study of the instability driven by a perturbed shock wave	Interface Instabilities at Extremes
51	820757	Sun pengyue	University of Science and Technology of China	Molecular dynamics simulations of Richtmyer-Meshkov instability of high-density gaseous interface	Interface Instabilities at Extremes
52	820801	Junfeng Ou	University of Science and Technology of China	Interaction of shock wave with double heavy-gas cylinders	Interface Instabilities at Extremes
53	820983	Jingfei Xin	University of Science and Technology of China	Two mode coupling of the ablative Rayleigh-Taylor instabilities	Interface Instabilities at Extremes
54	820753 and 820749	Rui Sun and Jianming Li	University of Science and Technology of	Interaction of Cylindrical Shock with Heavy Gas Layer with Perturbed Inner Surface	Interface Instabilities at Extremes

			China		
55	820481	Jintao Qi	Graduate School of China Academy of Engineering Physics	Alpha decay in intense laser fields	Fundamental Physics at Extremes
56	798735	Chengwu Huang	Laser Fusion Research Center, CAEP, China	Analysis of $K\alpha_{Ln}$ line emission from silicon plasmas created by intense radiation field	Fundamental Physics at Extremes
57	798885	Yuesong Jia	Institute of Fluid Physics, CAEP, China	Design of THz Reflectometry and Interferometer on Yingguang-I	Fundamental Physics at Extremes
58	820097	YanJun Chen	Shaanxi Normal University, China	Odd-even high-order harmonic spectroscopy	Fundamental Physics at Extremes
59	797511	Wenjing Ban	Center for High Pressure Science and Technology Advanced Research, China	Revealing “plasmaron” feature in DySb by optical spectroscopy study	Laser and Particle Beam Fusion
60	798707	Wenjing Ban	Center for High Pressure Science and Technology Advanced Research, China	Spectroscopy study of the topological property in PrSb	Laser and Particle Beam Fusion
61	798723	Minxi Wei	Laser Fusion Research Center, CAEP, China	Intensity Analysis Research of High Resolution Transmission Grating Spectrometer	Laser and Particle Beam Fusion
62	798759	Xiong Gang	Laser Fusion Research Center, CAEP, China	Development of high-flux multi-keV X-ray radiators from laser-driven convergent plasma	Laser and Particle Beam Fusion
63	798779	Xiangming Liu	Laser Fusion Research Center,	Efficient detection of X-ray photons based on solution- synthesized perovskites	Laser and Particle Beam Fusion

			CAEP, China		
64	798874	Minghai Yu	Laser Fusion Research Center, CAEP, China	Characterization of a high energy x-ray source produced by the SG-II-U laser facility	Laser and Particle Beam Fusion
65	798879	Qi Li	Laser Fusion Research Center, CAEP, China	M-band flux asymmetry measurement in hohlraum based on fluorescence imaging	Laser and Particle Beam Fusion
66	798957	Liqiong Xia	China Academy of Engineering Physics	The automatic aiming technology based on the machine learning	Laser and Particle Beam Fusion
67	799046	Bin Zhao	Nanjing Institute of Technology, China	Numerical study of the impact of plasma viscosity on exploding pusher implosion processes	Laser and Particle Beam Fusion
68	820513	Bo Ma	Xi'an Jiaotong University, China	Spectroscopic diagnostic of isolated dense plasma generated through laser driven gold hohlraum radiation	Laser and Particle Beam Fusion
69	820708	Lin Zhang	Xi'an Jiaotong University, China	Two dimensional hydrodynamic simulations of metal targets under irradiation of intense proton beams: Effects of target materials	Laser and Particle Beam Fusion
70	820794	Yu Li	Institute of Fluid Physics, CAEP, China	Introduction to a Super Temporal-Spatial Resolution Imaging Technology Prospective to Diagnose Target Implosion of ICF	Laser and Particle Beam Fusion
71	820878	Chuankui Sun	Laser Fusion Research Center, CAEP, China	Preliminary asymmetry analysis of the imploding capsule and its X-ray photograph	Laser and Particle Beam Fusion
72	820907	Yin Shuai	Xi'an Jiaotong University, China	Generation And Characteristics of Laser-accelerated Monoenergetic Ion Beams with Magnetic Selector	Laser and Particle Beam Fusion
73	820935	Jieru Ren	Xi'an Jiaotong University, China	Energy Loss of Laser-accelerated Ions in Dense Ionized Matter	Laser and Particle Beam Fusion
74	798781	Liling Li	Laser Fusion Research Center,	Optimization of x-ray emission from Gd-Au-Gd planar sample by laser irradiation	Laser and Particle Beam Fusion

			CAEP, China		
75	798489	Qiangqiang Zhang	Laser Fusion Research Center, CAEP, China	Three dimensional x-ray incoherent encoded holography based on binary Gabor zone plates	Laser and Particle Beam Fusion
76	798847	Kaiqiang Pan	Laser Fusion Research Center, CAEP, China	Competition between the two-plasmon decay of the backscattered light and the stimulated Raman side-scattering induced by the filamentation of the scattered light	Laser and Particle Beam Fusion
77	799758	Yunsong Dong	Laser Fusion Research Center, CAEP, China	Implosion performance and hotspot shape of novel hohlraum	Laser and Particle Beam Fusion
78	797310	Liangliang Du	Institute of Fluid Physics, CAEP, China	Tender X-ray beam splitting with high efficiency by use of multilayer grating based on conical diffraction	Science and Technology based on XFEL
79	797879	Kang Xu	Institute of Fluid Physics, CAEP, China	Simulated Coherent X-ray Imaging by XFEL Source	Science and Technology based on XFEL
80	798018	Jin Liu	Institute of Fluid Physics, CAEP, China	Simulation on XRD patterns for Dynamic material	Science and Technology based on XFEL
81	798274	Guan Tang	Institute of Fluid Physics, CAEP, China	Molecular dynamics simulation of copper damage induced by X-ray pulse	Science and Technology based on XFEL
82	798611	Limin Meng	Institute of Fluid Physics, CAEP, China	Development of refractive index variable X-ray compound refractive lenses	Science and Technology based on XFEL
83	799096	Ran An	Institute of Fluid Physics, CAEP, China	Single shot pulse imager for XFEL	Science and Technology based on XFEL
84	100063	Bowen Huang	Hunan University, China	Barium–Nitrogen Phases Under Pressure: Emergence of Structural Diversity and Nitrogen-Rich Compounds	High Pressure Physics and Materials Science

85	100065	Cunbo Zhang	Institute of Applied Physics and Computational Mathematics, Beijing, China	Research on turbulent mixing under the effect of thermal conduction	Fundamental Physics at Extremes
86	100066	Wenbin Liu	Institute of Applied Physics and Computational Mathematics, Beijing, China	Hydrodynamics simulations on the ejecta in tin induced by laser driven shock	Laser and Particle Beam Fusion