

The 2nd Announcement
The 4th International Conference on
Matter and Radiation at Extremes (ICMRE 2019)

May 29 – June 2, 2019

Hefei, Anhui, China

Dear Colleagues,

The 4th International Conference on Matter and Radiation at Extremes (ICMRE2019) will be held in Hefei *Wanda Realm Hotel* on May 29 – June 2, 2019. The conference will be hosted by **National Key Laboratory of Shock Wave and Detonation Physics, Institute of Fluid Physics, and University of Science and Technology of China**. The conference is aimed to provide a platform for scientists and engineers from all over the world to share their recent developments in frontiers of matter and radiation at extreme conditions. The 4th ICMRE covers the high pressure physics and materials science, the fundamental physics at extremes, laser- and particle beam fusion, science and technology at extremes based on XFEL, and fluid interface instability at extreme. The general chair of ICMRE2019 is Professor Weiyang Zhang, and the co-chairs are Professors Hokwang Mao, Duohui He, and Thomas Cowan.

You are welcome to join the ICMRE2019. More details can be found in the following Appendixes A-C, and at the website: <http://icmre2019.mre.org.cn/> .

We are waiting for you sharing the beautiful Hefei city and the fantastic scene of Lake Chaohu, Mountain Huangshan and Hefei opera Huang Mei !

Yours sincerely,

Hongliang He

On behalf of the Organizing Committee

Appendix A. Instruction of ICMRE2019

I. Plenary Speakers

- | | | |
|----|---------------------------|---|
| 1 | Hokwang Mao | HPSTAR, Center for High Pressure Science and Technology
Advanced Research, China |
| 2 | David Crandall | Independent researcher, USA |
| 3 | Thomas Cowan | Institute of Radiation Physics, Helmholtz-Zentrum
Dresden-Rossendorf, Germany |
| 4 | Viktor V.
Struzhkin | Geophysical Laboratory, Carnegie Institution of Washington,
USA |
| 5 | Haifeng Liu | Institute of Applied Physics and Computational Mathematics,
China |
| 6 | Choong Shik Yoo | Washington State University/ Department of Chemistry and
Institute of Shock Physics, USA |
| 7 | Sakura Pascarelli | European XFEL GmbH, Germany |
| 8 | Kazutaka
Nakamura | Tokyo Institute of Technology, Japan |
| 9 | Yanming Ma | State Key Laboratory of Superhard Materials, Jilin University,
China |
| 10 | Yasuo Oishi | Japan Synchrotron Radiation Research Institute, Japan |
| 11 | Rajeev Ahuja | Department of Physics, Uppsala University, Sweden |
| 12 | Xian-Tu He | Institute of Applied Physics and Computational Mathematics,
China |
| 13 | Jean-Luc Miquel | CEA/DAM/DAN, France |
| 14 | Yitzhak Maron | Weissman Institute of Sciences, Israel |
| 15 | Jiamin Yang | Laser Fusion Research Center, CAEP, China |
| 16 | Jeremy Paul
Chittenden | Imperial College, United Kingdom |
| 17 | Chikang Li | University of Chicago, USA |
| 18 | Duanwei He | Institute of Atomic and Molecular Physics, Sichuan University,
China |
| 19 | Xisheng Luo | University of Science and Technology of China, China |
| 20 | Yasuhiro
Kuramitsu | School of Engineering, Osaka University, Japan |
| 21 | Jianbo Hu | Institute of Fluid Physics, CAEP, China |
| 22 | Dieter Hoffmann | Xi'an Jiaotong University, China |

II. Topics

- High Pressure Physics and Materials Science
 - Methods and techniques of high pressure physics research
 - Matter properties and equation of state at extreme conditions
 - High pressure materials science

- Fundamental Physics at Extremes
 - Atomic physics, nuclear physics and plasma physics at extremes
 - Radiation- and high energy particle generation and transport
 - Innovative accelerators
 - Laser-plasma interaction
 - Laboratory astrophysics

- Laser- and Particle Beam Fusion
 - Laser and particle beam fusion physics
 - Experiments and diagnostics
 - Target fabrication
 - Lasers, laser propagation and optics including advanced materials response to high energy lasers and advanced manufacturing
 - Material response to radiation (particle and photon)

- Science and Technology at Extremes based on XFEL
 - XFEL facilities and frontier technology
 - High energy density physics based on XFEL
 - Materials at extreme condition based on XFEL

- Fluid Interface Instability at Extremes
 - Generation method of extreme conditions
 - Advanced testing technology under extreme conditions
 - Rayleigh-Taylor instability under extreme conditions
 - Richtmyer-Meshkov instability under extreme conditions
 - Complex flow and turbulence mixing under extreme conditions

III. Chairs

General Chair:

Weiyan ZHANG (China Academy of Engineering Physics, China)

Co-Chairs:

Hokwang Mao (HPSTAR, Center for High Pressure Science and Technology
Advanced Research, China)

Duohui He (University of Science and Technology of China, China)

Thomas Cowan (Institute of Radiation Physics, Helmholtz-Zentrum
Dresden-Rossendorf, Germany)

Local Chairs:

Qiang Wu (Institute of Fluid Physics, CAEP, China)

Xisheng Luo (University of Science and Technology of China, China)

IV. International Technical Committee

Chairs:

Simon Redfern (Department Head, Cambridge University, UK)

Yalin Lu (University of Science and Technology of China, China)

Dieter H. H. Hoffmann (Xi'an Jiaotong University, China)

Members (in alphabetic order):

Yan Bi, David Crandall, Jianjun Deng, Yongkun Ding, Duanwei He, Shao'en Jiang, Yasuhiro Kuramitsu, Ke Lan, Sergey Lebedev, Kuo Li, Shengnian Luo, Yanming Ma, Masakatsu Murakami, Bucur M. Novac, Vladimir Tikhonchuk, Jianguo Wang, Stefan Weber, Yongtao Zhao, Wanguo Zheng

V. Local Organizing Committee

Chair:

Hongliang He (Institute of Fluid Physics, CAEP, China)

Members (in alphabetic order):

Huanxin An, Sen Chen, Juchun Ding, Jinmei Du, Chongjiang Huang,
Shenghong Huang, Ying Huang, Tianhui Li, Xiaoya Li, Yuanyuan Li, Xin Peng, Jieru Ren, Ting Si, Yi Wei, Jianyun Wang, Rui Yan, Hao Yang, Lanjun Yang, Zhigang Zhai, Wenkang Zou

Secretary:

Xin Peng (彭馨) , Ying Huang (黄颖)

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VI. Hosts and Sponsors**Hosts:**

National Key Laboratory of Shock Wave and Detonation Physics

Institute of Fluid Physics

University of Science and Technology of China.

Co-Hosts:

Matter and Radiation at Extremes (Journal & AIP Publishing)

Institute of Applied Physics and Computational Mathematics, Beijing, China

Laser Fusion Research Center, Mianyang, China

Center for High Pressure Science & Technology Advanced Research, China

HiBEF Helmholtz-Zentrum Dresden-Rossendorf, Germany

Jilin University, China

Sichuan University, China

Xi'an Jiaotong University, Xi'an, China

Sponsors:

Chinese High Energy Density Physics Society, Chinese Physics Society
Chinese Pulsed Power Society, Chinese Nuclear Society
Chinese Society on Computational Physics, Chinese Nuclear Society
Science Challenge Project

Registration Fee:

Regular: ¥4,000 RMB
Student: ¥2,500 RMB
Companion: ¥1,000 RMB

Appendix B. Agenda of ICMRE2019

The ICMRE2019 will present 22 plenary talks, 11 parallel sessions for keynote, invited and oral talks, and poster sessions. The conference will specially offer a satellite workshop on High Energy Density Physics, and a scientific writing seminar. The details of the plenary talk sessions, parallel oral sessions and poster session are listed in this Appendix.

The guidelines for each presentation are as following:

- Plenary Presentation: 35 min (30 min talk +5 min questions)
- Keynote Presentation: 35 min (30 min talk +5 min questions)
- Invited Presentation: 25 min (20 min talk +5 min questions)
- Young Scientist Award Presentation: 20 min (15 min talk + 5 min questions)
- HiBEF User Meeting Presentation: 30 min (25 min talk + 5 min questions) or 20 min (15 min talk + 5 min questions)
- Contributed Presentation: 15 min (12 min talk + 3 min questions)
Please prepare PowerPoint slides for your presentation.
- Poster Presentation: Please print your own poster in size 90 cm × 120 cm.

May 29 th	09:00-12:00	Satellite workshop on High Energy Density Physics
	14:00-18:00	Editorial Board Meeting
	09:00-24:00	Registration
	18:30-21:00	Welcome Party
May 30 th	08:00-08:30	Opening Ceremony
	08:30-12:00	Plenary Talks
	14:00-18:00	Parallel Sessions
	19:00-20:30	Scientific Writing Seminar
May 31 th	08:00-12:00	Plenary Talks
	14:00-16:00	Parallel Sessions
	16:00-18:00	Poster Presentations
	18:20-21:00	Banquet
June 1 st	08:00-12:00	Plenary Talks
	14:00-18:00	Parallel Sessions
June 2 nd	08:00-11:15	Plenary Talks
	11:15-11:35	Welcome to ICMRE 2020
	11:35-12:00	Closing Ceremony
	13:30-18:00	Lab Tour

Conference Agenda

Plenary Talks Agenda

Thursday, May 30 th					
	08:00-08:30	Opening Ceremony			Chair: Hua Li
1	08:30-09:05	Hokwang Mao	Center for High Pressure Science and Technology Advanced Research, China	Plenary Talk: Recent advances in high-pressure physics, materials & geoscience	Chair: Yalin Lu
2	09:05-09:40	David Crandall	Independent researcher, USA	Plenary Talk: High Energy Density Science in the US	
3	09:40-10:15	Thomas Cowan	Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf, Germany	Plenary Talk: Extreme Matter Research with High Power Lasers at Hard X-ray FELs and the Helmholtz International Beamline for Extreme Fields (HiBEF)	
	10:15-10:50	Group Photo & Coffee Break			
4	10:50-11:25	Viktor V. Struzhkin	Geophysical Laboratory, Carnegie Institution of Washington, USA	Plenary Talk: Magnetic susceptibility studies of high temperature superconductivity in LaHx at high pressures	Chair: Eugene Gregoryanz
5	11:25-12:00	Haifeng Liu	Institute of Applied Physics and Computational Mathematics, China	Plenary Talk: Progress in properties of Substance at extreme condition	

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

13	08:35-09:10	Jean-Luc Miquel	CEA/DAM/DAN, France	Plenary Talk: Status of LMJ-PETAL facility and academic program	
14	09:10-09:45	Yitzhak Maron	Weissman Institute of Sciences, Israel	Plenary Talk: Experimental determination of the ion temperature and turbulence energy in high-energy-density plasmas	
	09:45-10:05	Coffee Break			
15	10:05-10:40	Jiamin Yang	Laser Fusion Research Center, CAEP, China	Plenary Talk: Experiments on radiative property of warm/hot dense matter at high power laser facilities	Chair: Jean-Luc Miquel
16	10:40-11:15	Jeremy Paul Chittenden	Imperial College, United Kingdom	Plenary Talk: Magnetic fields in inertial confinement fusion	
17	11:15-11:50	Chikang Li	University of Chicago, USA	Plenary Talk: Exploring high-energy-density physics with advanced nuclear diagnostics	
Sunday, June 2nd					
18	08:00-08:35	Duanwei He	Institute of Atomic and Molecular Physics, Sichuan University, China	Plenary Talk: Preparation of nanostructured bulk materials under high pressure	Chair: Sakura Pascarelli
19	08:35-09:10	Xisheng Luo	University of Science and Technology of China, China	Plenary Talk: Richtmyer-Meshkov instability on single-mode and quasi-single-mode interface	
20	09:10-09:45	Yasuhiro Kuramitsu	School of Engineering, Osaka University, Japan	Plenary Talk: Relativistic particle acceleration with radiation pressure in extremely intense light field	
	09:45-10:05	Coffee Break			

21	10:05-10:40	Jianbo Hu	Institute of Fluid Physics, CAEP, China	Plenary Talk: Progress in the Institute of Fluid Physics, CAEP	Chair: Ke Lan
22	10:40-11:15	Dieter Hoffmann	Xi'an Jiaotong University, China	Plenary Talk: Accelerator Driven High Energy Density Science Related to Inertial Fusion Energy Issues	
	11:15-11:35	Welcome to ICMRE 2020			Chair: Dieter H. H. Hoffmann
	11:35-12:00	Closing Ceremony			

Parallel Talks Agenda

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

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

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

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

Friday, May 31 st					
II-1 High Pressure Hydrogen and Hydrides	14:00-14:35	Eugene Gregoryanz	Center for High Pressure Science and Technology Advanced Research, China	Keynote Talk: Synthesis of Novel Hydrides at High Pressures	Chair: Dalladay-Simpson Philip
	14:35-15:00	Huayun Geng	Institute of Fluid Physics, CAEP, China	Invited Talk: 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	Invited Talk: Dehydrogenation through the pressure-induced polymerization processes of phosphine	
	15:25-15:40	Xiayan Yan	Institute of Material, CAEP, China	Hydrogen Release Behavior of Lithium Hydride under High-energy X Ray Irradiation	
	15:40-15:55	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	
	15:55-18:00	Coffee Break			
	Poster				

Saturday, June 1st

<p align="center">II-2</p> <p>High Pressure Hydrogen and Hydrides</p>	14:00-14:25	Dalladay-Simpson Philip	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: Hydrogen Chloride at Extreme Conditions	<p align="center">Chair:</p> <p>Eugene Gregoryanz</p>
	14:25-14:50	Alexander Goncharov	Carnegie Institution for Science, USA	Invited Talk: Probing transformations of hydrogen at extremes of high pressure, temperature, and external fields using synchrotron and laser facilities and tabletop fast laser spectroscopy	
	14:50-15:15	Duckyoung Kim	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: Unprecedented physical/chemical properties in metal hydrides under pressure	
	15:15-15:30	Xue Li	Jilin University, China	Probing the high-pressure structure of TaH ₃ via CALYPSO	
	15:30-15:45	Xiaohua Zhang	Northeast Normal University, China	Nonmetallic FeH ₆ under High Pressure	
	15:45-16:00	Liang Sun	Laser Fusion Research Center, CAEP, China	Absolute EOS measurement for shocked CH in X-Ray radiography	
	16:00-16:20	Coffee Break			
<p align="center">II-3</p> <p>High Pressure Hydrogen and Hydrides</p>	16:20-16:45	Mary-Ellen Donnelly	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: Miscibility of hydrogen and helium mixtures	<p align="center">Chair:</p> <p>Lin Wang</p>
	16:45-17:10	Mario Santoro	National Institute of Optics of the National Council of Research (INO-CNR), Italy	Invited Talk: Sub-Nano Confined Matter at High Pressures	
	17:10-17:25	Chuanlong Lin	Center for High Pressure Science and Technology	Controlled formation of amorphous ice on time scale from hour to millisecond	

			Advanced Research, China		
	17:25-17:40	Guicun Ma	Institute of Applied Physics and Computational Mathematics, Beijing, China	The high pressure equation of state of Xenon	
	17:40-17:55	Dexiang Gao	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 th					
III-1 Computational physics under high pressure	14:00-14:25	Yanchao Wang	Jilin University, China	Invited Talk: Crystal structure prediction method and its applications at high pressure	Chair: Jian Sun
	14:25-14:50	Guochun Yang	Northeast Normal University, China	Invited Talk: Superconductivity in Li6P electrider	
	14:50-15:15	Huiyang Gou	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: 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 _{2-x} Te under high pressure	
	15:45-16:00	Bowen Huang	Hunan University, China	A Constrained Evolutionary Algorithm for the Crystal Structure Prediction of Novel Li-CO ₂ Based Materials	
	16:00-16:20	Coffee Break			
III-2 Computational	16:20-16:45	Jian Sun	Nanjing University, China	Invited Talk: Phase transition and materials design under high pressure	Chair: Yanchao
	16:45-17:10	Quan Li	Jilin University, China	Invited Talk: Exotic Hydrogen Bonding in Compressed Ammonia Hydrides	

physics under high pressure	17:10-17:35	Yinwei Li	Jiangsu Normal University, China	Invited Talk: Computational Design of High-Energy Density Materials at High Pressure	Wang
	17:35-17:50	Yuan Liu	Shanghai University, China	Allotropes of tellurium from first-principles crystal structure prediction calculations under pressure	
	17:50-18:05	Xin Yang	Jilin University, China	Unexpected pressure-induced decomposition of binary lanthanum intermetallic compounds	
Friday, May 31st					
III-3 Computational physics under high pressure	14:00-14:25	Guoying Gao	Yanshan University, China	Invited Talk: High-pressure phases of boron arsenide with potential high thermal conductivity	Chair: Huiyang Gou
	14:25-14:50	Jian Lv	Jilin University, China	Invited Talk: Accelerating CALYPSO structure prediction by Data-driven Learning of Potential Energy Surface	
	14:50-15:15	Yan Li	Sun Yat-sen University, China	Invited Talk: Ab initial simulations of pyrochlore compounds for nuclear waste management: chances and challenges	
	15:15-15:30	Jiayan Lin	Northeast Normal University, China	Exploration of new oxidation states at high pressures	
	15:30-15:45	Hengzhong Zhang	Center for High Pressure Science and Technology Advanced Research, China	Interaction and Phase Transition of Compressed NaCl Nanoparticles by Molecular Dynamics Simulations	
	15:45-16:00	Feiwu Zhang	Institute of Geochemistry, CAS, China	Structure prediction and its applications on the nuclear waste management	
	16:00-18:00	Coffee Break			
	Poster				

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

Saturday, June 1 st						
IV-1 High Pressure Geoscience	14:00-14:35	Jie (Jackie) Li	University of Michigan, USA	Keynote Talk: Driving Geodynamo through Differentiation of Molten Iron-rich Alloys at Megabar Pressures	Chair: Wen-Pin Hsieh	
	14:35-15:00	Jin Zhang	University of New Mexico, USA	Invited Talk: 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	Invited Talk: 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	Coffee Break				
IV-2 High Pressure Geoscience	16:15-16:40	Wen-Pin Hsieh	Institute of Earth Sciences, Academia Sinica, Taipei	Invited Talk: Thermal conductivity of deep Earth materials	Chair: Jie (Jackie) Li	
	16:40-17:05	Zhu Mao	University of Science and Technology of China	Invited Talk: High-Pressure Phase of Ammonia Hydrate: Implication for the Internal Structure of Ice Giants		
	17:05-17:30	Xianlong Wang	Institute of Solid State Physics, CAS, China	Invited Talk: Pressure-induced spin crossover of magnetic Mott-insulators: results of the hybrid functional		
	17:30-17:45	Xiao Dong	Nankai University, China	Novel high-pressure calcium carbonates		
	17:45-18:00	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 2nd Asia-Pacific User Meeting for HiBEF (Wanda Realm, VIP Room)

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

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

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

	15:05-15:20	Benyuan Cheng	Center for High Pressure Science and Technology Advanced Research, China	Pressure-induced phase transition in the AlCoCrFeNi high-entropy alloy		
	15:20-15:35	Mingtao Li	Center for High Pressure Science and Technology Advanced Research, China	Pressure-induced Lifshitz transitions and superconductivity in NbxBi ₂ Se ₃		
	15:35-15:50	Zewei Quan	Southern University of Science and Technology	Structural Transformations of FUNCTIONAL Nanoparticles		
	15:50-16:10	Coffee Break				
VI-3 High Pressure Advanced Materials	16:10-16:35	Pei Wang	Southern University of Science and Technology, China	Invited Talk: High Pressure Synthesis and In situ High Pressure X-ray Diffraction Study of Materials	Chair: Zhisheng Zhao	
	16:35-16:50	Xiao-Di Liu	Institute of Solid State Physics, CAS	The effects of isotopic doping on the phase diagram of H ₂ -HD-D ₂ molecular alloy		
	16:50-17:05	Jun Han	Center for High Pressure Science and Technology Advanced Research, China	Study on the polymerization of sodium monoacetylene under high pressure		
	17:05-17:20	Qiang Tao	Jilin University, China	Modulating Hardness in Molybdenum Monoborides by Adjusting an Array of Boron Zigzag Chains		
	17:20-17:35	Bing Li	Center for High Pressure Science and Technology Advanced Research, China	Behavior of diamond anvil cell up to 4 Mbar		
	17:35-17:50	Fang Hong	Institute of Physics, CAS, China	Functional oxide materials under high pressure		

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

Thursday, May 30th					
VII-1 Fundamental physics at extremes	14:00-14:25	Kunioki Mima	The Graduate School for the Creation of New Photonics Industries, Japan	Invited Talk: Researches on laser driven neutron source and applications in Japan	Chair: Felix Mackenroth
	14:25-14:50	Andrea Ciardi	Sorbonne University and Paris Observatory, France	Invited Talk: Magnetized laser plasmas and their astrophysical applications	
	14:50-15:05	Yang Zhao	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	University of California, San Diego, USA	Stochastic acceleration of electrons in two colliding laser waves	
	15:20-15:35	Min Lv	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	Institute of Fluid Physics, CAEP, China	Simulation on the compressed field-reversed configuration with alpha particle self-heating	
	15:50-16:10	Coffee Break			
VII-2 Fundamental physics at extremes	16:10-16:35	Felix Mackenroth	Max Planck Institute for the Physics of Complex Systems Dresden, Germany	Invited Talk: Nonlinear quantum electrodynamics in ultra-high intensity laser-plasma interactions	Chair: Kunioki Mima
	16:35-16:50	Zuhua Yang	Laser Fusion Research Center, CAEP, China	Study on reflection zone plate diffraction property and its application for ICF	
	16:50-17:05	Yong Yu	Institute of Fluid Physics, CAEP, China	Ultrafast measurements of ion temperature in high-energy-density plasmas by nuclear resonance fluorescence	
	17:05-17:20	Zhiyu Zhang	Laser Fusion Research Center, CAEP, China	X-ray fluorescence spectroscopy measurement of the shock compressed titanium	
	17:20-17:35	Lu Liu	Graduate School of China	Terahertz yield from ZnO crystal driven by	

			Academy of Engineering Physics	strong laser pulse	
Friday, May 31st					
VII-3 Fundamental physics at extremes	14:00-14:25	Frank.B. Rosmej	Sorbonne University, Faculty of Science and Engineering Paris, France	Invited Talk: Ionization potential depression: a critical analysis	Chair: Yitzhak Maron
	14:25-14:50	Guoqiang Zhang	Shanghai Advanced Research Institute, Chinese Academy of Sciences	Invited Talk: Nuclear Physics Induced by Laser	
	14:50-15:15	Benzheng Chen	Xi'an Jiaotong University, China	Particle-in-cell simulation of propagation of intense proton beams in gas plasmas: role of hydrodynamic instabilities	
	15:15-15:30	Zhenghua Yang	Laser Fusion Research Center, CAEP, China	Development of curved crystal monochromatic imaging system in LFRC	
	15:30-15:45	Wenpeng Wang	Shanghai Institute of Optics and Fine Mechanics, CAS, China	New Optical Manipulation of Relativistic Vortex Cutter	
	15:45-16:00	Yong Hou	National University of Defense Technology, China	Ionic structures and transport properties of hot dense W and U plasmas	
	16:00-18:00	Coffee Break			
	Poster				
Saturday, June 1st					
VII-4 Fundamental physics at extremes	14:00-14:25	Stefan Weber	ELI-Beamlines, Academy of Sciences of the CR	Invited Talk: Towards atomic diagnostics for ultra-high laser intensities	Chair: Olimpia Budriga
	14:25-14:50	Yongtao Zhao	Xi'an Jiaotong University, China	Invited Talk: New opportunities for High Energy Density Physics research with Large scale accelerators	
	14:50-15:15	Mamiko Nishiuchi	National Institutes for Quantum and Radiological	Invited Talk: Extreme electric fields extracting highly charged heavy ions by PW-class short	

			Science and Technology, Japan	pulse high intensity laser		
	15:15-15:30	Yingbin Li	Xinyang Normal University, China	Frustrated double ionization of argon atom with linearly polarized laser pulses		
	15:30-16:45	Long Xu	Graduate School of China Academy of Engineering Physics	Frequency-resolved photon-electronic spectroscopy for excited state population detection		
	15:45-16:00	Aihua Liu	Jilin University, China	Dynamic Interference in Photoemission by Superintense Ultrashort Extreme Ultraviolet Pulses		
	16:00-16:20	Coffee Break				
VII-5 Fundamental physics at extremes	16:20-16:45	Olimpia Budriga	National Institute for Laser, Plasma and Radiation Physics, Măgurele, Romania	Invited Talk: Modeling the interaction of an ultra-high intensity laser pulse with nanostructured targets	Chair: Stefan Weber	
	16:45-17:10	Baisong Xie	Beijing Normal University, China	Invited Talk: Dynamics and Pair Production in Strong Field		
	17:10-17:25	Chao Yu	Nanjing University of Science and Technology, China	Effect of transition dipole on high order harmonic generation in solids		
	17:25-17:40	Weiwu Wang	Laser Fusion Research Center, CAEP, China	Pulsed magnetic field produced by ultraintense laser irradiating capacitor-coil target		
	17:40-17:55	Wenjuan Lv	Institute of Applied Physics and Computational Mathematics, Beijing, China	Deuterium-Tritium Fusion in Intense Laser Fields		

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

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

	17:25-17:40	Zhimin Hu	Laser Fusion Research Center, CAEP, China	DD Implosion Mixing Effect Study Using X-ray Spectroscopy	
	17:40-17:55	Chunhui Yan	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	Laser Fusion Research Center, CAEP, China	Measurement of the hot-spot self-emission images with KB microscopy and x-ray framing camera	
Friday, May 31st					
VIII-3 Laser- and Particle Beam Fusion	14:00-14:25	Rafael Ramis Abril	E.T.S.I. Aeronáutica y del Espacio - Universidad Politécnica de Madrid, Spain	Invited Talk: Three-dimensional simulation of hohlraum targets	Chair: Vladimir Tikhonchuk
	14:25-14:50	Hideaki Takabe	Institute of Radiation Physics, Helmholtz-Zentrum Dresden-Rossendorf, Germany and Osaka University, Japan	Invited Talk: Theory of turbulent mixing	
	14:50-15:15	Feng Wang	Laser Fusion Research Center, CAEP, China	Invited Talk: Recent Progress of ICF Diagnostic techniques based on Shenguang laser facility in China	
	15:15-15:30	Xing Zhang	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	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	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	Coffee Break			

		Poster			
Saturday, June 1st					
VIII-4 Laser- and Particle Beam Fusion	14:00-14:25	Masakatsu Murakami	Institute of Laser Engineering, Osaka University, Japan	Invited Talk: Novel approach to the Schwinger limit: Micro-bubble implosion as a plasma-optical device	Chair: Jos éJavier Honrubia Checa
	14:25-14:50	Xian-Tu He	Center for Applied Physics and Technology, Peking Univeristy	Invited Talk: Energy band theory for warm dense matter	
	14:50-15:05	Tao Gong	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	
	15:05-15:20	Wenyi Huo	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	
	15:20-15:35	Lifei Hou	Laser Fusion Research Center, CAEP, China	Improvement of Specific-Region Flux Diagnosis for Inertial Confinement Fusion Experiments	
	15:35-15:50	Jingwen Ba	Institute of Material, CAEP, China	H/He co-irradiation induced structural modification and the evolution of irradiations in Li4SiO4	
	15:50-16:10	Coffee Break			
VIII-5 Laser- and Particle Beam Fusion	16:10-16:35	Jos éJavier Honrubia Checa	Universidad Polit écnica de Madrid, Spain	Invited Talk: Magnetic field amplification in laser-driven cylindrical implosions. Application to the guiding of charged-particle beams	Chair: Masakatsu Murakami
	16:35-17:00	Weimin Zhou	Laser Fusion Research Center, CAEP, China	Invited Talk: X-ray point-projection backlight radiography at the picosecond petawatt laser facilities	
	17:00-17:15	Chao Lu	ELI-Beamlines, Institute of Physics CAS, Dolní Břežany,	Marshak wave: Propagation of Radiation and Thermal Fronts in a Plasma	

			Czech Republic		
	17:15-17:30	Qingsong Feng	Institute of Applied Physics and Computational Mathematics, Beijing, China	Suppression of Stimulated Raman Scattering and Hot Electrons Generation due to Langmuir Decay Instability Cascade	
	17:30-17:45	Fuyuan Wu	National University of Defense Technology, China	Numerical investigation on the effects of self-generated magnetic field in laser driven inertial confinement fusion	
	17:45-18:00	Kuan Ren	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 th						
IX-1 Materials and Chemistry at Extremes	14:00-14:35	Kuo Li	Center for High Pressure Science and Technology Advanced Research, China	Keynote Talk: Topochemical polymerization under high pressure	Chair: Guoqiang Yang	
	14:35-15:10	Bo Zou	Jilin University, China	Keynote Talk: Pressure Induced Emission		
	15:10-15:25	XIAOLEIFEN G	Center for High Pressure Science and Technology Advanced Research, China	AlN10: a potential high-energy density material		
	15:25-15:40	Man-Rong Li	Sun Yat-Sen University, China	Predicted Polymorph Variation of Manganese Tellurate at High Pressure		
	15:40-15:55	Lei Liu	Institute of Fluid Physics, CAEP, China	Characterizing equation of state, sound speed, refractive index, and polarizability of shock compressed dense gaseous hydrogen-deuterium mixtures		
	15:55-16:15	Coffee Break				

IX-2 Materials and Chemistry at Extremes	16:15-16:40	Li Lei	Sichuan University, China	Invited Talk: Nitrogen at extremes	Chair: Yanqiang Yang
	16:40-17:05	Guanjun Xiao	Jilin University, China	Invited Talk: Pressure-Induced Emission of One-Dimensional Organic Tin Bromide Perovskites	
	17:05-17:20	Saqib Rahman	Center for High Pressure Science and Technology Advanced Research, China	Tuning the photoresponse of nano-heterojunction: Pressure-induced inverse photoconductance in functionalized WO ₃ nanocuboids	
	17:20-17:35	Jianhong Dai	Institute of Physics, CAS, China	Color and luminescence dissymmetry factor tuned by mechanical pressure in a circularly polarized luminescent material	
	17:35-17:50	Junjie Guan	Center for High Pressure Science and Technology Advanced Research, China	Tunable Photoluminescence of Organic Molecular Crystals under High Pressure	
	17:50-18:05	Xiaoyu Sun	University of Science and Technology of China	New Phases Discovery of ϵ -CL-20 under High Pressure up to 60 GPa	
Friday, May 31st					
IX-3 Materials and Chemistry at Extremes	14:00-14:25	Guoqiang Yang	Institute of Chemistry, CAS, China	Invited Talk: Supercompressing glassy sulfur	Chair: Kuo Li
	14:25-14:50	Yuguo Ma	Peking University, China	Invited Talk: Reaction under Pressure: Compression-Induce Polymerization and Isomerization	
	14:50-15:05	Chan Gao	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	Institute of Fluid Physics, CAEP, China	Pressure-induced Phase Transitions of Energetic Material δ -HMX	
	15:20-15:35	Zilong Xu	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	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	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	Coffee Break				
		Poster				
Saturday, June 1st						
IX-4 Materials and Chemistry at Extremes	14:00-14:25	Lei Su	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: Polymerization of room temperature ionic liquid under high pressure	Chair: Bo Zou	
	14:25-14:50	Yongtao Zou	Southern University of Science and Technology, China	Invited Talk: 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	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	Institute of Fluid Physics, CAEP, China	High-Pressure Synthesis and Characterization of CeOCl		
	15:35-15:50	Chengliang Lin	Graduate School of China Academy of Engineering Physics	Ionization potential depression in warm dense matters		

	15:50-16:10	Coffee Break			
IX-5 Materials and Chemistry at Extremes	16:10-16:35	Yanqiang Yang	Institute of Fluid Physics, CAEP, China	Invited Talk: Electron-phonon coupling and acoustic velocity measurement	Chair: Lei Su
	16:35-17:00	Stephen Sharma	University of California, Berkeley, USA	Invited Talk: Stretching the Horizon of the Observeon Apeirogon	
	17:00-17:15	Guilin Wang	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	Beijing Computational Science Research Center, China	Deuteron Disintegration Induced by Electron Recollision	
	17:30-17:45	Binqiang Luo	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)

Thursday, May 30th					
X-1 Fluid Interface Instability at Extremes	14:00-14:35	Shengnian Luo	Southwest Jiaotong University, China	Keynote Talk: Probe structural dynamics at dynamic extremes with advanced X-ray sources	Chair: Baolin Tian
	14:35-15:00	Rui Yan	University of Science and Technology of China	Invited Talk: Laser Plasma Instabilities at Large-Angle Oblique Laser Incidence	
	15:00-15:15	Jingyue Yin	Institute of Applied Physics and Computational Mathematics, Beijing, China	Numerical study of shock-dusty gas cylinder interaction	
	15:15-15:30	Xilong Huang	Institute of Fluid Physics, CAEP, China	Experimental investigation on the evolution of Rayleigh-Taylor instability at tilted interface	
	15:30-15:45	Xu Guo	University of Science and	Bubble Competition in Richtmyer-Meshkov	

			Technology of China	Instability	
	15:45-16:00	Tao Wang	Institute of Fluid Physics, CAEP, China	Numerical investigations of metal interface instability in cylindrical geometry	
	16:00-16:20	Coffee Break			
X-2 Fluid Interface Instability at Extremes	16:20-16:45	Baolin Tian	Institute of Applied Physics and Computational Mathematics, Beijing, China	Invited Talk: High Order Numerical Simulation of Turbulent Mixing Induced by Interface Instability under Extreme Conditions	Chair: Shengnian Luo
	16:45-17:00	Yuan Li	King Abdullah University of Science and Technology	Linear stability of impulsively accelerated density interface in ideal two-fluid plasma	
	17:00-17:15	Zhangbo Zhou	University of Science and Technology of China	Mode Coupling effect on Converging Richtmyer-Meshkov Instability	
	17:15-17:30	Yongteng Yuan	Laser Fusion Research Center, CAEP, China	Experimental development of hydrodynamic instabilities on Shenguang laser facilities	
	17:30-17:45	Qian Chen	Institute of Applied Physics and Computational Mathematics, Beijing, China	Effects of Atwood number on the Richtmyer-Meshkov instability in elastic-plastic media	
Friday, May 31st					
X-3 Fluid Interface Instability at Extremes	14:00-14:25	Zhengfeng Fan	Institute of Applied Physics and Computational Mathematics, Beijing, China	Invited Talk: A theoretical model for low-mode asymmetry in ICF implosions	Chair: Ting Si
	14:25-14:50	Shenghong Huang	University of Science and Technology of China	Invited Talk: Multiscale numerical simulations on Richtmyer-Meshkov instability under extreme conditions	
	14:50-15:05	Wenbin Zhang	Institute of Fluid Physics, CAEP, China	The instability of a water-gas interface with planar shape impacted by a rippled shock	
	15:05-15:20	Ming Li	University of Science and Technology of China	Experimental Investigation on Nonlinear Converging Richtmyer-Meshkov Instability	
	15:20-15:35	Shaolong Zhang	Institute of Fluid Physics, CAEP, China	Experimental investigation of Richtmyer-Meshkov instability in convergent	

				interface between solid tin and foamed polystyrene	
	15:35-15:50	Juchun Ding	University of Science and Technology of China	Convergent Richtmyer-Meshkov instability on a heavy gas layer with perturbed outer surface	
	16:05-18:00	Coffee Break			
		Poster			

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

Saturday, June 1 st					
XI-1 Frontier of Science and Technology at Extremes	14:00-14:25	Kouhei Ichiyanagi	Jichi Medical University, Japan	Invited Talk: In-situ observation of microstructure deformation in shock compressed polycrystalline aluminum using synchrotron source based time-resolved X-ray diffraction	Chair: Wenge Yang
	14:25-14:50	Xianming Zhou	Institute of Fluid Physics, CAEP, China	Invited Talk: Polymorphic dielectric properties of shocked sapphire and GGG single crystals	
	14:50-15:05	Bingbing Zhang	Institute of High Energy Physics, CAS, China	Structural Dynamic Beamline at High Energy Photon Source	
	15:05-15:20	Genbai Chu	Laser Fusion Research Center, CAEP, China	High-energy X-ray radiography of laser shock loaded metal dynamic fragmentation using high-intensity short-pulse laser	
	15:20-15:35	Jiangtao Li	Institute of Fluid Physics, CAEP, China	Equation of state and phase diagram of 4H-silicon carbide investigated by laser shock compression	
	15:35-15:50	Jing Li	Institute of Fluid Physics, CAEP, China	Methods and techniques of high pressure physics research	

	15:50-16:20	Coffee Break			
XI-2 Frontier of Science and Technology at Extremes	16:20-16:50	Wenge Yang	Center for High Pressure Science and Technology Advanced Research, China	Invited Talk: Emerging materials from pressure induced electronic transition	Chair: Kouhei Ichiyanagi
	16:50-17:20	Guiji Wang	Institute of Fluid Physics, CAEP, China	Invited Talk: Dynamic Responses of Polycrystalline NiTi Alloy under Shock Compression: Experiments and Molecular Dynamics Simulations	
	17:20-17:35	Min Shui	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	
	17:35-17:50	Dawu Xiao	Institute of Material, CAEP, China	Influence of grain boundary segregation on the dynamic damage evolution in Ni alloy under laser shock loading	

Satellite Workshop on High Energy Density Physics

Wednesday, May 29th	Wanda Vista, VIP Room
9:00 - 9:40 Yitzhak Maron (Invited) "Progress in the investigation of Magnetized-Plasma compression"	
9:40 – 10:20 Zhurong Cao (Invited) "Full-range X ray diagnostic technology of spherically symmetric implosion compression in inertial confinement fusion."	
10:20-10:40 Coffee break	
10:40 – 11:20 Masakatsu Murakami (Invited) "Compression of matter by strong shock and linear stability analysis – from hyperspherical shock to Noh problem"	
11:10 – 12:00 Xisheng Luo (Invited) "On converging shock and converging Richtmyer-Meshkov instability"	

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 30th.

No.	Registration No.	Name	Affiliation	Title
BPA-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
BPA-2	765953	Weipeng Yao	Peking University, China	Kinetic particle-in-cell simulation of astrophysical relativistic jet transport in ambient environment
BPA-3	820517	Qingzheng Lyu	Institute of Physics, CAS, China	Accumulation of Bosons between Fermions due to the Pauli Exclusion Principle
BPA-4	820521	Qingzheng Lyu	Institute of Physics, CAS, China	Role of the Spatial Inhomogeneity on the Laser-Induced Vacuum Decay
BPA-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
BPA-6	820515	Qingzheng Lyu	Institute of Physics, CAS, China	Quantum-Mechanical Approach to the Laser-Assisted Vacuum Decay
BPA-7	797917	Lu Yu	Institute of Fluid Physics, CAEP, China	1-D Numerical Simulation on Magnetic Driven Solid Liner Implosion Process

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

			University, China	metallicity
BPA-22	820874	Zhikang Yuan	Yanshan University, China	Structural stability, electronic structure, and superconductivity of cubic sodium hexaboride NaB ₆ from first-principle calculations
BPA-23	820876	Mengdong Ma	Yanshan University, China	High Temperature and High Pressure Sintering of Nanocrystalline B ₄ C/SiC Composite Ceramics
BPA-24	820926	Xiangting Ren	Southern University of Science and Technology, China	Accessing New Properties of Halide Perovskites through Lattice Compression
BPA-25	820949	Bing Liu	Yanshan University, China	Mechanical properties of TiO ₂ Nanoceramic through High Pressure Sintering
BPA-26	821011	Azkar Saeed Ahmad	Southern University of Science and Technology, China	Pressure-induced metallization in molybdenum disulphide
BPA-27	820725	Ting Si	University of Science and Technology of China	Development of a three-dimensional gas cylinder under reshock conditions
BPA-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
BPA-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
BPA-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	
BPA-31	797933	Hang Li	Laser Fusion Research Center, CAEP, China	Observations of the hydrodynamic phenomena of plasma interaction in hohlraums
BPA-32	798278	Yan Zhao	Laser Fusion Research Center, CAEP, China	Multispectral Imaging of Continuum Emission for DD Implosion Experiment
BPA-33	798873	Zanyang Guan	China Academy of Engineering Physics	Preliminary study of driven uniformity by VISAR
BPA-34	799873	アキト イノウエ	Osaka University, Japan	Statistical acceleration of protons in terms of micro-bubble implosion
BPA-35	820596	Sasa Song	Xi'an Jiaotong University, China	Investigation of ion energy and angular distribution in a dc-biased, collisional plasma sheath
BPA-36	820959	Lian Wang	University of Science and Technology of China	Two plasmon decay by lasers with large incidence angles
BPA-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
BPA-38	797887	Jiayun Wang	Jilin University, China	High-Pressure Evolution of Unexpected Chemical Bonding and Promising Superconducting properties of YB6
BPA-39	798635	Yihan Liang	Institute of Fluid Physics, CAEP, China	Preliminary simulation modeling on XFEL-materials damage process
BPA-40	820811	Shuai Shen	Institute of Fluid Physics, CAEP, China	Experimental Investigation on Effect of Viscosity on Droplet Deformation Process at Low Weber Number
BPA-41	820993	Shifei Liu	National University of	Repetitive Operation of Compact High Voltage Pulsed Accelerator based on Comb-type Forming Line

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

Poster (91 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 30th.

No.	Registration No.	Name	Affiliation	Title	Field
P-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
P-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
P-3	798679	Rui Qin	Institute of Fluid Physics, CAEP, China	Strain effect of high harmonic generation in two dimensional materials	Fundamental Physics at Extremes
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-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
P-19	798897	Xiaohui Chen	Institute of Fluid Physics, CAEP, China	High-Pressure X-ray Diffraction Experiments on Shengguang-II laser facility	High Pressure Physics and Materials Science
P-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
P-21	798971	Liang Xu	Institute of Fluid Physics, CAEP, China	The anomalies in molten tin	High Pressure Physics and Materials Science
P-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
P-23	799447	Qing Dong	Jilin University, China	Pressure-induced phase transition to non-layered structure and the enhanced superconductivity in 1T-TaS ₂	High Pressure Physics and Materials Science
P-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
P-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
P-26	820017	Qin Qin	Center for High Pressure Science and Technology Advanced Research, China	The Structure Change of Ca ₂ N with Different Medium under High Pressure	High Pressure Physics and Materials Science

P-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
P-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
P-29	820312	Dong Lai	Jilin University, China	Effect of the structure on physics properties of Cr ₂ Ge ₂ Te ₆	High Pressure Physics and Materials Science
P-30	820617	Junkai Zhang	Jilin University, China	Correlation between Structural Changes and Electrical Transport Properties of Spinel ZnFe ₂ O ₄ Nanoparticles under high Pressure	High Pressure Physics and Materials Science
P-31	820658	Zitai Liang	Yanshan University, China	Small Onion-like BN Leads to Ultrafine-twinned Cubic BN	High Pressure Physics and Materials Science
P-32	820683	Chao Liu	Shanghai University, China	2D selenium allotropes from first principles and swarm intelligence	High Pressure Physics and Materials Science
P-33	820730	Lingjuan Hao	Yanshan University, China	Electronic structure and superconductivity in hexagonal Li ₃ B ₂ and Li ₂ B ₂ H phases under pressure	High Pressure Physics and Materials Science
P-34	820760	Qiaoyi Han	Yanshan University, China	Germanium allotropes decompressed from high-pressure β -tin phase	High Pressure Physics and Materials Science
P-35	820790	Qi Gao	Yanshan University, China	Study on Diamond and Cubic Boron Nitride Composites	High Pressure Physics and Materials Science
P-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
P-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
P-38	820845	Hui Tian	Jilin University, China	Pressure impact on the crystal structure, optical, and transport properties in high mobility semiconductor Bi ₂ O ₂ Se	High Pressure Physics and Materials Science
P-39	820920	Hu Cheng	Southern	A convenient dynamic loading device based	High Pressure Physics and

			University of Science and Technology, China	on symmetric diamond anvil cells	Materials Science
P-40	820934	Yan Li	Sun Yat-sen University, China	Surfaces/Interfaces Modification for Vacancies Enhancing Lithium Storage Capability of Cu ₂ O Ultrasmall Nanocrystals	High Pressure Physics and Materials Science
P-41	820955	Dong MingDong	Southern University of Science and Technology, China	Synthesis, structure and physical properties of FeN	High Pressure Physics and Materials Science
P-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
P-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
P-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
P-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
P-46	821002	Ruifang Huang	Southern University of Science and Technology,	Kinetics of gas hydrate precipitation and decomposition via X-ray and neutron diffraction	High Pressure Physics and Materials Science

			China		
P-47	797741	Wanggang Hua	Institute of Fluid Physics, CAEP, China	Developments of Simulation Codes for Magnetic Driven Experiments in IFP	Interface Instabilities at Extremes
P-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
P-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
P-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
P-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
P-52	820801	Junfeng Ou	University of Science and Technology of China	Interaction of shock wave with double heavy-gas cylinders	Interface Instabilities at Extremes
P-53	820983	Jingfei Xin	University of Science and Technology of China	Two mode coupling of the ablative Rayleigh-Taylor instabilities	Interface Instabilities at Extremes
P-54	820753 and 820749	Rui Sun and Jianming Li	University of Science and Technology of China	Interaction of Cylindrical Shock with Heavy Gas Layer with Perturbed Inner Surface	Interface Instabilities at Extremes
P-55	820481	Jintao Qi	Graduate School of China	Alpha decay in intense laser fields	Fundamental Physics at Extremes

			Academy of Engineering Physics		
P-56	798735	Chengwu Huang	Laser Fusion Research Center, CAEP, China	Analysis of K α Ln line emission from silicon plasmas created by intense radiation field	Fundamental Physics at Extremes
P-57	798885	Yuesong Jia	Institute of Fluid Physics, CAEP, China	Design of THz Reflectometry and Interferometer on Yingguang-I	Fundamental Physics at Extremes
P-58	820097	Yanjun Chen	Shaanxi Normal University, China	Odd-even high-order harmonic spectroscopy	Fundamental Physics at Extremes
P-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
P-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
P-61	798723	Minxi Wei	Laser Fusion Research Center, CAEP, China	Intensity Analysis Research of High Resolution Transmission Grating Spectrometer	Laser and Particle Beam Fusion
P-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
P-63	798779	Xiangming Liu	Laser Fusion Research Center, CAEP, China	Efficient detection of X-ray photons based on solution- synthesized perovskites	Laser and Particle Beam Fusion
P-64	798874	Minghai Yu	Laser Fusion Research Center,	Characterization of a high energy x-ray source produced by the SG-II-U laser	Laser and Particle Beam Fusion

			CAEP, China	facility	
P-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
P-66	798957	Liqiong Xia	China Academy of Engineering Physics	The automatic aiming technology based on the machine learning	Laser and Particle Beam Fusion
P-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
P-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
P-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
P-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
P-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
P-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
P-73	820935	Jieru Ren	Xi'an Jiaotong University, China	Energy Loss of Laser-accelerated Ions in Dense Ionized Matter	Laser and Particle Beam Fusion
P-74	798781	Liling Li	Laser Fusion Research Center, CAEP, China	Optimization of x-ray emission from Gd-Au-Gd planar sample by laser irradiation	Laser and Particle Beam Fusion
P-75	798489	Qiangqiang Zhang	Laser Fusion Research Center,	Three dimensional x-ray incoherent encoded holography based on binary Gabor zone	Laser and Particle Beam Fusion

			CAEP, China	plates	
P-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
P-77	799758	Yunsong Dong	Laser Fusion Research Center, CAEP, China	Implosion performance and hotspot shape of novel hohlraum	Laser and Particle Beam Fusion
P-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
P-79	797879	Kang Xu	Institute of Fluid Physics, CAEP, China	Simulated Coherent X-ray Imaging by XFEL Source	Science and Technology based on XFEL
P-80	798018	Jin Liu	Institute of Fluid Physics, CAEP, China	Simulation on XRD patterns for Dynamic material	Science and Technology based on XFEL
P-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
P-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
P-83	799096	Ran An	Institute of Fluid Physics, CAEP, China	Single shot pulse imager for XFEL	Science and Technology based on XFEL
P-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
P-85	100065	Cunbo Zhang	Institute of Applied Physics and	Research on turbulent mixing under the effect of thermal conduction	Fundamental Physics at Extremes

			Computational Mathematics, Beijing, China		
P-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
P-87	100071	Zexi Hu	Institute of Applied Physics and Computational Mathematics, Beijing, China	Effects of viscosity of single-mode Rayleigh-Taylor instability in late-time	Interface Instabilities at Extremes
P-88	100072	Haifeng Li	Institute of Applied Physics and Computational Mathematics, Beijing, China	Evolution of Mixing Width Up to Late Stage in Richtmyer-Meshkov Instability with Re-shock	Interface Instabilities at Extremes
P-89	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
P-90	827538	Jihui Chen	Institute of Fluid Physics, CAEP, China	Design and performance of single-order multilayer diffraction gratings	
P-91	100073	Ji Yan	Laser Fusion Research Center, CAEP, China	The preliminary experiment of driven pressure enhancement by hybrid drive on ShenGuang Laser facility	

Appendix C. Accommodation Information

I. Address of Wanda Realm Hotel (万达嘉华酒店)

Nanning East Road No. 301, Binhu New District, Hefei
合肥 滨湖新区 南宁东路301号



II. Transportation of Wanda Realm Hotel

1. From Hefei South Railway Station (合肥南站), about 13.2 km and 21 min by taxi.
2. From Hefei Railway Station (合肥站), about 21.4 km and 30 min by taxi.
3. From Hefei Airport (合肥新桥机场), about 52.9 km and 54 min by taxi
4. It is also suggested to go to the hotel by the metro, and get off at the Wanda City (万达城) Station of Metro Line 1 (地铁1号线). The hotel is about 1.1 km in the east of the metro station, and about 16 minutes by walk.