

ICMRE2022大会具体议程

2022年6月7日

开幕式和颁奖典礼

20:00-20:05 主持人: Michel Koenig

开幕式

20:05-20:15 主持人: Dieter Hoffmann

MRE 最佳论文奖颁奖典礼

20:15-20:30 主持人: Dieter Hoffmann

MRE 青年科学家奖颁奖典礼

大会报告

大会报告 1: 20:30-21:20 主持人: Michel Koenig

胡建波, 中国工程物理研究院流体物理研究所

"Shock-induced phase transitions: from macroscopic to microscopic point of view"

大会报告 2: 21:20-22:10 主持人: Michel Koenig

Christoph Keitel, Max-Planck Institute for Nuclear Physics in Heidelberg, Germany

"Extreme-field physics with electron beams, relativistic plasmas and strong laser pulses"

大会报告 3: 22:10-23:00 主持人: Jean-Luc Miquel

郑万国, 中国工程物理研究院激光聚变研究中心

"Update on the Laser Driver for ICF"

大会报告 4: 23:00-23:50 主持人: Jean-Luc Miquel

Dominik Kraus, University of Rostock, Germany

"Pressure effects on the electronic structure of carbon-hydrogen mixtures in the Mbar to Gbar regime"

2022年6月8日

分会场 1: 状态方程

专题报告 1: 2022年6月8日 20:00-20:40 主持人: 康炜

Alessandra Ravasio, Laboratoire d'Utilisation des Lasers Intenses (LULI), CNRS, France

"Exploring metallic and superionic ammonia in ice giant interiors"

邀请报告 1-1: 20:40-21:10 主持人: 康炜

咸家伟, 北京应用物理与计算数学研究所

"Phase diagram and equation of state for beryllium from ab initio molecular dynamics simulations"

邀请报告 1-2: 21:10-21:40 主持人: 刘海风

Kento Katagiri (片桐健登), Osaka University, Japan

"Hugoniot Equation-of-State of Polyimide up to 600 GPa"

邀请报告 1-3: 21:40-22:10 主持人: 刘海风

康炜, 北京大学

"Equation of state of hydrocarbon: How Close Between Theories and Experiments"

邀请报告 1-4: 22:10-22:40 主持人: 刘海风

Pavel Levashov, Joint Institute for High Temperatures RAS, Moscow, Russia

"Shock-wave experiments and phase diagrams for liquid metals: ab initio study"

分会场 2: 高压科学

专题报告 2: 20:00-20:40 主持人: 毛河光

马琰铭, 吉林大学超硬材料国家重点实验室

"Clathrate Superhydrides Stabilized at High Pressure: A Class of Conventional Superconductors that work at near room temperature"

邀请报告 2-1: 20:40-21:10 主持人: 毛河光

Roberto Bini, University of Florence, UNIFI - Chemistry Department, Italy

"Steps forward in designing carbon nanothreads with tailored optical properties"

邀请报告 2-2: 21:10-21:40 主持人: 李阔

赵智胜, 燕山大学亚稳材料制备技术与科学国家重点实验室

"Direct transformation mechanism from graphite to diamond"

邀请报告 2-3: 21:40-22:10 主持人：李阔

Viktor Struzhkin, Center for High Pressure Science and Technology
Advanced Research, Shanghai, China & Geophysical Laboratory, Carnegie
Institution of Washington, US

"Magnetic susceptibility studies in new hydride superconductors"

邀请报告 2-4: 22:10-22:40 主持人：李阔

Leonid Dubrovinsky, University Bayreuth, Germany

分会场 3: 激光等离子体相互作用

专题报告 3: 20:00-20:40 主持人: Stefan Weber

Sylvie Depierreux, CEA, Paris, France

**"Experiments Evidencing Stimulated Raman Scattering
Increased by Multibeam Effects and Plasma Inhomogeneity"**

邀请报告 3-1: 20:40-21:10 主持人: Stefan Weber

Tony Arber, University of Warwick, UK

**"Recent progress in modelling laser-plasma interactions for shock
ignition"**

邀请报告 3-2: 21:10-21:40 主持人: Vladimir Tikhonchuk

Jason Myatt, Edmonton University, Canada

**"The role of stimulated Raman side scattering indirectly-driven
laser-plasma experiments"**

邀请报告 3-3: 21:40-22:10 主持人: Vladimir Tikhonchuk

郝亮, 北京应用物理与计算数学研究所

**"Investigation on collective stimulated Brillouin scattering with
shared scattered light of two overlapping laser beams"**

邀请报告 3-4: 22:10-22:40 主持人: Vladimir Tikhonchuk

Kevin Glize, 西安交通大学

**"Observation of the stimulated Raman side-scattering
predominance in the compression stage of the Double-Cone
Ignition Direct-Drive approach"**

分会场 4: 实验室天体物理

专题报告 4: 20:00-20:40 主持人: Michel Koenig

Frederico Fiuza, SLAC National Accelerator Laboratory, Stanford University,
US

"Turbulent shocks and particle acceleration in the laboratory"

邀请报告 4-1: 20:40-21:10 主持人: Michel Koenig

Florian Debras, IRAP, France

“Constraining the interior of giant planets with state-of-the-art equations-of-state of warm dense matter”

邀请报告 4-2: 21:10-21:40 主持人: Alexis Casner

任洁茹, 西安交通大学

“Laboratory generation and applications of uniform dense plasma”

邀请报告 4-3: 21:40-22:10 主持人: Alexis Casner

Gabriel Rigon, Nagoya University, Japan

“A study of Rayleigh-Taylor instability and Supernova remnant from astrophysics to laboratory experiment”

邀请报告 4-4: 22:10-22:40 主持人: Alexis Casner

Arno Vanthieghem, Princeton University, US

“Microturbulence in unmagnetized relativistic collisionless shock waves”

2022 年 6 月 9 日

MRE 论坛（聚焦高能量密度科学的新一代激光装置）

20:00-20:05 主持人: David Crandall

MRE 论坛介绍

特邀报告 F-1: 20:05-20:20 主持人: David Crandall

Robbie Scott, Central Laser Facility, UK

“Laser Driver Requirements for Inertial Fusion Energy”

特邀报告 F-2: 20:20-20:35 主持人: David Crandall

Todd Ditmire, University of Texas at Austin, US

特邀报告 F-3: 20:35-20:50 主持人: David Crandall

Ryosuke Kodama, Osaka University, Japan

特邀报告 F-4: 20:50-21:05 主持人: David Crandall

高妍琦, 上海激光等离子体研究所

“Low-coherence KunWu laser facility and LPI Experiment on it”

21:05-21:35 主持人: David Crandall, 蓝可

讨论