

	Name	Affiliation	Title	
1	David Ceperley	University of Illinois Urbana-Champaign	Electronic energy gap closure and metal-insulator transition in dense liquid hydrogen	Invited
2	Mandy Bethkenhagen	École Normale Supérieure de Lyon	Density Functional Theory calculations for high-temperature carbon plasmas	Invited
3	Emma McBride	SLAC National Accelerator Laboratory	High Resolution Inelastic X-ray scattering experiments on laser-compressed argon	Invited
4	Dongdong Kang	Department of Physics, National University of Defense Technology, Changsha, Hunan 410073, P. R. China	Equation of states and atomic structures of matter under extreme conditions and the extension to large scale by machine learning	Invited
5	Zhandos Moldabekov	Center of Advanced Systems Understanding (CASUS)	Physics beyond homogeneous warm dense matter	Invited
6	Benjamin Ofori-Okai	SLAC National Accelerator Laboratory	Measuring the near-DC electrical conductivity of warm dense matter using THz spectroscopy	Invited
7	Charles Starrett	Los Alamos National Laboratory	Multi-Center Calculations of the Equation-of-state of Carbon at Very High Pressures	Invited
8	Toma Toncian	Helmholtz-Zentrum Dresden-Rossendorf	First high-intensity laser experiments at the European XFEL	Invited
9	Sergey Khrapak	Joint Institute for High Temperatures, Russian Academy of Sciences, 125412 Moscow, Russia	Vibrational model of thermal conductivity in strongly coupled plasma-realtd	Invited
10	Victor Mintsev	Institute of Problems of Chemical Physics RAS	Vladimir E.Fortov and Non-Ideal Plasma Physics	Invited
11	Alexey Filinov	Kiel University, JIHT RAS Russia	Fermionic propagator path integral Monte Carlo simulations: Equation-of-state of hydrogen plasma without the fixed-node approximation	Oral
12	Attila Cangi	Center for Advanced Systems Understanding (CASUS), Helmholtz-Zentrum Dresden-Rossendorf	Data-driven Multiscale Modeling of Matter under Extreme Conditions	Oral
13	Augustin Blanchet	CEA-DAM-DIF, F-91297 ArpaJon, France and Université Paris-Saclay, CEA, Laboratoire Matière sous Conditions Extrêmes, 91680 Bruyères-le-Châtel, France	Extended-DFT model for high temperatures simulations in ABINIT and application to warm dense aluminum and boron	Oral
14	Michael Bonitz	ITAP, Kiel University	Momentum distribution function and short-range correlations of electrons in dense quantum plasmas – ab initio quantum Monte Carlo results	Oral
15	Qiyu Zeng	Department of Physics, National University of Defense Technology	Ab Initio Validation on the Connection between Atomistic and Hydrodynamic Description to Unravel the Ion Dynamics of Warm Dense Matter	Oral
16	YONGJUN CHOI	MICHIGAN STATE UNIVERSITY	Influence of Dissipation and Effective Interaction on the Dense Plasma Dynamic Structure Factor	Oral
17	Alina Kononov	Center for Computing Research, Sandia National Laboratories, Albuquerque NM, USA	Bound-bound features in x-ray Thomson scattering signals	Oral
18	Nicholas Hartley	SLAC National Accelerator Laboratory	X-rays as Drivers of HED Experiments	Oral
19	Paul Neumayer	GSI Helmholtzzentrum fuer Schwerionenforschung, 64291 Darmstadt, Germany	HED science with intense heavy-ion pulses at GSI/FAIR	Oral
20	Thomas Preston	European XFEL, Holzkoppel 4, 22869 Schenefeld, Germany	New frontiers in X-ray heating with FELs	Oral
21	Yuri Zaporozhets	Institute of Problems of Chemical Physics of the Russian Academy of Sciences, Academician Semenov Avenue 1, Chernogolovka, Moscow Region 142432, RUSSIA	Warm dense matter explored with shock wave experiments	Oral
22	Michal Šmíd	HZDR	Ultrafast melting of Warm Dense Cu studied by x-ray spectroscopy	Oral
23	Oliver Humphries	HZDR	Characterizing the Ionization Potential Depression in Dense Plasmas with High-Precision Spectrally Resolved X-ray Scattering	Oral
24	Thomas White	University of Nevada, Reno, NV, USA	Measuring Transport Properties in Warm Dense Matter with Fresnel Refractive Diffractive Radiography	Oral
25	Bo Chen	Department of Physics, National University of Defense Technology, Changsha 410073, P. R. China	Atomic-scale study on the dynamics of structural transformation under shock compression	Oral
26	Igor Iosilevskiy	Joint Institute for High Temperature RAS	The simplest model for non-congruent phase transition in non-ideal Coulomb system	Oral
27	Markus Schoelmerich	Lawrence Livermore National Laboratory	SiO2 shock melt- and release experiments at LCLS and SACLA	Oral
28	Martin Preising	Universität Rostock	Metallization of dense fluid helium from ab initio simulations	Oral
29	Simon Blouin	Los Alamos National Laboratory	Direct Evaluation of the Phase Diagrams of Dense Multicomponent Plasmas by Integration of the Clapeyron Equations	Oral
30	Xiaoxiang Yu	Department of Physics, National University of Defense Technology, Changsha, 410073, P. R. China	Self-consistent phonon calculations of thermodynamic functions and phase diagram of gold in megabar regime	Oral
31	Askar Davletov	Al-Farabi Kazakh National University	Ionization potential depression in partially ionized plasmas	Oral
32	François Soubiran	CEA DAM-DIF, 91297 ArpaJon, France	Electrical conductivity and optical properties of hydrogen-helium mixtures in the megabar regime	Oral
33	Igor M. Tkachenko	Universitat Politècnica de València, Valencia, Spain	Optical properties of binary ionic mixtures	Oral
34	Ilina Fairushin	Kazan Federal University	Self-Consistent Relaxation Theory of Collective Dynamics in Coulomb and Yukawa One-Component Plasmas	Oral
35	Jean-Christophe Pain	CEA, DAM, DIF, F-91297 ArpaJon, France	A consistent approach for electrical resistivity within Ziman's formalism: from solid state to hot dense plasma	Oral
36	Luciano Silvestri	Michigan State University	Temperature relaxation in strongly-coupled binary ionic mixtures	Oral
37	Moldir Issanova	IETP, Al-Farabi Kazakh National University	Ion core effect on scattering processes in dense plasmas	Oral
38	Burkhard Militzer	University of California, Berkeley	First-Principles Equation of State (FPEOS) Database And Dilute Cores in Giant Planets	Oral
39	Dmitry Nikolaev	Institute of problems of chemical physics RAS, Chernogolovka, Russia	Dense Silicon Plasma Emission under Pressures 70-510 GPa	Oral
40	Kushal Ramakrishna	Helmholtz Zentrum Dresden-Rossendorf	Electrical conductivity of Iron under Earth core conditions using Time-dependent density functional theory	Oral
41	Michael Stevenson	University of Rostock	Phase Changes in Dynamically Compressed Water	Oral
42	Ronald Redmer	University of Rostock, Institute of Physics, D-18051 Rostock, GERMANY	Collective x-ray Thomson scattering for conditions inside brown dwarfs using the National Ignition Facility	Oral
43	Werner Ebeling	Prof. em.	Equation of State of Hydrogen, Helium and Plasmas in the Sun	Oral
44	Constantin Bernert	Helmholtz-Zentrum Dresden – Rossendorf (HZDR), 01328 Dresden, Germany; Technische Universität Dresden, 01069 Dresden, Germany	High intensity laser interaction with solid-density cryogenic hydrogen jet targets	Oral
45	Mohammadreza Banjafar	European XFEL, Holzkoppel 4, 22869, Schenefeld, Germany	Nanoscale subsurface dynamics of warm dense plasmas upon high-intensity laser irradiation investigated by grazing incidence X-ray surface scattering	Oral
46	Pascal Brault	GREMI CNRS -Université d'Orléans, 45067 Orléans Cedex 2, France	Molecular dynamics simulations of initial stage of hydrocarbon plasma dust nucleation	Oral
47	Inna Martynova	Joint Institute for High Temperatures RAS	Effective macroions charge in modified Debye-Hückel plus hole and Wigner-Seitz approximations with regard to microions correlations	Oral
48	Viktor Karasev	Saint Petersburg State University	Dusty plasma in a stratified glow discharge in a strong magnetic field	Oral
49	Armin Bergermann	Universität Rostock	Gibbs-ensemble Monte Carlo simulations for binary mixtures	Oral
50	Tobias Dornheim	Center for Advanced Systems Understanding (CASUS), Helmholtz-Zentrum Dresden-Rossendorf (HZDR)	Effective Static Approximation: A Fast and Reliable Tool for Warm-Dense Matter Theory	Oral
51	Lenz Fiedler	Helmholtz-Zentrum Dresden-Rossendorf	Materials Learning Algorithms (MALA): An Efficient Surrogate for Ab-initio Simulations	Oral
52	Ulf Zastra	European XFEL, Schenefeld, Germany	HED science at European XFEL - an Overview	Oral
53	Vadim Kim	IPCP RAS, Chernogolovka, Russia	Hydrodynamic simulation of the future HED matter EOS research experiments at FAIR	Oral
54	Martin French	Universität Rostock	Thermal and optical properties of synthetic planetary HCNO mixtures from ab initio simulations	Oral
55	Trigger Sergey	Joint Institute for High Temperatures of Russian Academy of Sciences	Equilibrium radiation in plasma and plasma effects in cosmic microwave background	Oral
56	Sandeep Kumar	Institute for Physics, University of Rostock, Rostock, Germany	Ionization and transport in partially ionized multi-component plasmas: Plasma model for Hot Jupiter atmospheres	Oral
57	Frank Graziani	ITAP, Kiel University	Quantum hydrodynamics and shock physics	Oral

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