Name Affiliation Title

David Ceperley	University of Illinois Urbana-Champaign	Electronic energy gap closure and metal-insulator transition in dense liquid hydrogen
Mandy Bethkenhagen Emma McBride	École Normale Supérieure de Lyon SLAC National Accelerator Laboratory	Density Functional Theory calculations for high-temperature carbon plasmas High Resolution Inelastic X-ray scattering experiments on laser-compressed argon
Dongdong Kang	Department of Physics, National University of Defense Technology,	Equation of states and atomic structures of matter under extreme conditions and the extension to large scale by machine learning
	Center of Advanced Systems	
Zhandos Moldabekov	Center of Advanced Systems Understanding (CASUS)	Physics beyond homogeneous warm dense matter
Benjamin Ofori-Okai	SLAC National Accelerator Laboratory	Measuring the near-DC electrical conductivity of warm dense matter using THz spectroscopy
Charles Starrett	Los Alamos National Laboratory Helmholtz-Zentrum Dresden-	Multi-Center Calculations of the Equation-of-state of Carbon at Very High Pressures
Toma Toncian	Rossendorf	First high-intensity laser experiments at the European XFEL
Sergey Khrapak	Joint Institute for High Temperatures, Russian Academy of Sciences, 125412 Moscow, Russia	Vibrational model of thermal conductivity in strongly coupled plasma-realted
/ictor Mintsev	Institute of Problems of Chemical	Vladimir E.Fortov and Non-Ideal Plasma Physics
Alexey Filinov	Physics RAS	Fermionic propagator path integral Monte Carlo simulations: Equation-of-state of hydrogen plasma without the fixed-node approximation
Attila Cangi	Kiel University, JIHT RAS Russia Center for Advanced Systems Understanding (CASUS), Helmholtz-	Data-driven Multiscale Modeling of Matter under Extreme Conditions
Augustin Blanchet	Zentrum Dresden-Rossendorf  CEA-DAM-DIF, F-91297 Arpajon, France and Université Paris-Saclay, CEA, Laboratoire Matière sous	Extended-DFT model for high temperatures simulations in ABINIT and application to warm dense aluminum and boron
	Conditions Extrêmes, 91680 Bruyères- le-Châtel, France	
Michael Bonitz	ITAP, Kiel University	Momentum distribution function and short-range correlations of electrons in dense quantum plasmas – ab initio quantum Monte Carlo results
liyu Zeng	Department of Physics, National	Ab Initio Validation on the Connection between Atomistic and Hydrodynamic Description to Unravel the Ion Dynamics of Warm Dense Matter
ONGJUN CHOI	University of Defense Technology MICHIGAN STATE UNIVERSITY	Influence of Dissipation and Effective Interaction on the Dense Plasma Dynamic Structure Factor
	Center for Computing Research,	
Alina Kononov	Sandia National Laboratories,	Bound-bound features in x-ray Thomson scattering signals
licholas Hartley	Albuquerque NM, USA SLAC National Accelerator Laboratory	X-rays as Drivers of HED Experiments
	GSI Helmholtzzentrum fuer	
aul Neumayer	Schwerionenforschung, 64291	HED science with intense heavy-ion pulses at GSI/FAIR
homas Droots -	Darmstadt, Germany European XFEL, Holzkoppel 4, 22869	New frantiers in V ray heating with EEL a
homas Preston	Schenefeld, Germany	New frontiers in X-ray heating with FELs
uri 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
Michal Šmíd	HZDR	Ultrafast melting of Warm Dense Cu studied by x-ray spectroscopy
liver Humphries	HZDR	Characterizing the Ionization Potential Depression in Dense Plasmas with High-Precision Spectrally Resolved X-ray Scattering
o Chen	University of Nevada, Reno, NV, USA  Department of Physics, National University of Defense Technology,	Measuring Transport Properties in Warm Dense Matter with Fresnel Refractive Diffractive Radiography  Atomic-scale study on the dynamics of structural transformation under shock compression
gor losilevskiy	Changsha 410073, P. R. China Joint Institute for High Temperature	The simplest model for non-congruent phase transition in non-ideal Coulomb system
	RAS Lawrence Livermore National	
Markus Schoelmerich	Laboratory	SiO2 shock melt- and release experiments at LCLS and SACLA
Martin Preising	Universität Rostock	Metallization of dense fluid helium from ab initio simulations  Direct Evoluction of the Phase Dispress of Dense Multicomponent Plasmas by Integration of the Claneuren Equations
Simon Blouin	Los Alamos National Laboratory  Department of Physics, National	Direct Evaluation of the Phase Diagrams of Dense Multicomponent Plasmas by Integration of the Clapeyron Equations
(iaoxiang Yu	University of Defense Technology,	Self-consistent phonon calculations of thermodynamic functions and phase diagram of gold in megabar regime
Askar Davletov	Changsha, 410073, P. R. China Al-Farabi Kazakh National University	Ionization potential depression in partially ionized plasmas
rançois Soubiran		Electrical conductivity and optical properties of hydrogen-helium mixtures in the megabar regime
rançois Soubiran	CEA DAM-DIF, 91297 Arpajon, France	Electrical conductivity and optical properties of hydrogen-neiturn mixtures in the megabal regime
gor M. Tkachenko	Universitat Politècnica de València, Valencia, Spain	Optical properties of binary ionic mixtures
naz Fairushin	Kazan Federal University	Self-Consistent Relaxation Theory of Collective Dynamics in Coulomb and Yukawa One-Component Plasmas
ean-Christophe Pain	CEA, DAM, DIF, F-91297 Arpajon,	A consistent approach for electrical resistivity within Ziman's formalism: from solid state to hot dense plasma
uciano Silvestri	France Michigan State University	Temperature relaxation in strongly-coupled binary ionic mixtures
	IETP, Al-Farabi Kazakh National	
Moldir Issanova	University	Ion core effect on scattering processes in dense plasmas
urkhard Militzer	University of California, Berkeley	First-Principles Equation of State (FPEOS) Database And Dilute Cores in Giant Planets
mitry Nikolaev	Institute of problems of chemical physics RAS, Chernogolovka, Russia	Dense Silicon Plasma Emission under Pressures 70-510 GPa
Cushal Ramakrishna	Helmholtz Zentrum Dresden-	Electrical conductivity of Iron under Earth core conditions using Time-dependent density functional theory
lichael Stevenson	Rossendorf	Phase Changes in Dynamically Compressed Water
	University of Rostock University of Rostock, Institute of	
onald Redmer	Physics, D-18051 Rostock, GERMANY	Collective x-ray Thomson scattering for conditions inside brown dwarfs using the National Ignition Facility
Verner Ebeling	Prof. em.	Equation of State of Hydrogen, Helium and Plasmas in the Sun
Constantin Bernert	Helmholtz-Zentrum Dresden – Rossendorf (HZDR), 01328 Dresden, Germany; Technische Universitaet Dresden, 01069 Dresden, Germany	High intensity laser interaction with solid-density cryogenic hydrogen jet targets
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 scatte
Pascal Brault	GREMI CNRS -Université d'Orléans, 45067 Orléans Cedex 2, France	Molecular dynamics simulations of initial stage of hydrocarbon plasma dust nucleation
nna Martynova	Joint Institute for High Temperatures	Effective macroions charge in modified Debye-Hückel plus hole and Wigner-Seitz approximations with regard to microions correlations
iktor Karasev	RAS Saint Petersburg State University	Dusty plasma in a stratified glow discharge in a strong magnetic field
rmin Bergermann	Universität Rostock	Gibbs-ensemble Monte Carlo simulations for binary mixtures
obias 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
	Helmholtz-Zentrum Dresden-	Materials Learning Algorithms (MALA): An Efficient Surrogate for Ab-initio Simulations
enz Fiedler	Rossandorf	
	Rossendorf  Furopean XFEL Schenefeld Germany	HED science at European XFEL - an Overview
Jlf Zastrau	European XFEL, Schenefeld, Germany	HED science at European XFEL - an Overview  Hydrodynamic simulation of the future HED matter FOS research experiments at FAIR
		HED science at European XFEL - an Overview  Hydrodynamic simulation of the future HED matter EOS research experiments at FAIR Thermal and optical properties of synthetic planetary HCNO mixtures from ab initio simulations
Jif Zastrau /adim Kim	European XFEL, Schenefeld, Germany IPCP RAS, Chernogolovka, Russia Universität Rostock Joint Institute for High Temperatures of	Hydrodynamic simulation of the future HED matter EOS research experiments at FAIR
Jlf Zastrau /adim Kim /artin French	European XFEL, Schenefeld, Germany IPCP RAS, Chernogolovka, Russia Universität Rostock	Hydrodynamic simulation of the future HED matter EOS research experiments at FAIR Thermal and optical properties of synthetic planetary HCNO mixtures from ab initio simulations

	al-Farabi Kazakh National University,	
Tomiris Ismagambetova	Institute of Experimental and Theoretical Physics (IETP), al-Farabi str., 71, Almaty, 050040, KAZAKHSTAN	Screening and structural properties of dense hydrogen plasmas with partially degenerate semiclassical ions
Zhiyu He	Universität Rostock, Rostock, Germany; Helmholtz-Zentrum Dresden- Rossendorf, Germany	Diamond formation kinetics in shock-compressed C-H-O samples via small angle X-ray scattering
Oriza Kamboj	Department of Physics, Lovely Professional University, Punjab, India	Study of stimulated Raman forward scattering in presence of azimuthal magnetic field in a density rippled plasma in inertial confinement fusion
Marco Garten	HZDR, TU Dresden	Laser-ion acceleration in the optimized TNSA regime via temporal pulse shaping
Brian Edward Marré	Helmholtz Zentrum Dresden - Rossendorf	In situ atomic physics for PIC
Roman Boltnev	Joint Institute for High Temperatures, Russian Academy of Sciences, Moscow, 125412, Russia	Multimodal dusty plasma in DC glow discharge at temperatures below 2 K
Timothy Callow	Center for Advanced Systems Understanding (CASUS)	First principles derivation and properties of density-functional average-atom models
Naeem Tahir	GSI Helmholtzzentrum fuer Schwerionenforschung, 64291 Darmstadt, Germany	Application of intense ion beams to planetary physics research at the FAIR facility
Ilja Göthel	Helmholtz-Zentrum Dresden- Rossendorf	Influence of picosecond range laser temporal pulse shape on ion acceleration
Assan Abdirakhmanov	Institute of Experimental and Theoretical Physics, Al-Farabi Kazakh National University, Almaty, Kazakhstan	Behavior of Dust Particles in Magnetized DC Glow Discharge
Fedor Trukhachev	Joint Institute for High Temperatures, Russian Academy of Sciences, 125412 Moscow, Russia	Active motion of Janus particle in RF Plasma
Assem Temirbek	IETP, al-Farabi Kazakh National University, Kazakhstan, Almaty	Investigation of the influence of the neutral shadowing force on the properties of dusty plasma using the 3D Molecular Dynamics method
Askar Davletov	Al-Farabi Kazakh National University	Shielding of charged particle interactions in the presence of neutrals
Erik Schroedter	ITAP, Kiel University 1IETP, al-Farabi Kazakh National	Many-body quantum dynamics based on fluctuations
Erik Shalenov Hanno Kählert	University ITAP, Kiel University	Excitation cross sections of the hydrogen atom in the dense semiclassical plasmas  Dynamic structure factor of correlated magnetized plasmas
lgor M. Tkachenko	Universitat Politècnica de València, Spain	Static and dynamic properties of classical and quantum one-component plasmas
Kassymkhan Baiseitov	IETP Al-Farabi KazNU, Institute of Applied Science and Information Technology	Waves in the medium of collisional and viscous quark-gluon plasma
Luciano G. Silvestri	Michigan State University Center for Advanced Systems	Sarkas: A Fast Pure-Python Molecular Dynamics Suite for Non-Ideal Plasmas
Maximilian Böhme Paul Hamann	Understanding  CAU Kiel	Ab initio path integral Monte Carlo approach to the momentum distribution of theuniform electron gas at finite temperature without fixed nodes  Quantum degenerate electron-ion plasmas in the Born-Mermin approximation
Vladimir Filinov	Joint Institute for High Temperatures, Russian Academy of Sciences	Thermodynamic properties of the finite-temperature electron gas by the fermionic path integral Monte Carlo method
Yaroslav Lavrinenko	Joint Institute for High Temperatures of the Russian Academy of Sciences	Simulation of warm dense deuterium by WPMD-DFT
Benjamin Jodar	CEA, DAM, DIF, F-91297	Development of a microsecond pulse Joule heating facility for investigating warm dense metallic plasmas.
Divyanshu Ranjan	Universität Rostock, & Helmholtz- Zentrum Dresden-Rossendorf	Characterising Insulator-metal transition of Hydrogen with spectrally resolved X-ray scattering
Julian Lütgert	Helmholtz-Zentrum Dresden- Rossendorf	Creation of artificial radiography images to investigate radiation transport in the interior of red dwarfs
Pablo Perez-Martin	Helmholtz-Zentrum Dresden- Rossendorf, Teschniche Universität	Characterization of low-density rear-driven collisional plasma jets from thin foils
Radka Štefaníková	Dresden HZDR, TU Dresden	First results from the Ge and quartz x-ray spectrometers at Draco PW laser facility
Xiayun Pan	Helmholtz-Zentrum Dresden- Rossendorf, Dresden, Germany	Investigation of hot dense plasmas heated by short-pulse intense laser using x-ray spectroscopy
Zhangaly Moldabekov	Al-Farabi Kazakh National University	Experimentally study of damage mechanism of tungsten materials using plasma focus device
Benjamin Heuser	Universität Rostock, Rostock, Germany; Helmholtz-Zentrum Dresden-	Recovery Methods for Nano Diamonds formed in Laser-Compressed Plastics
	Rossendorf, Germany	
Lisa Marie Victoria Zinta	Universität Rostock Institute of Problems of Chemical	Diamond Formation in Laser Compressed Plastics
Mikhail Kulish	Physics RAS, 142432, Chernogolovka, Russia  National University of Defense	Emission and Reflectivity of the Shock Compressed Silicon Plasma
Xiaolei Zan	Technology Institute of Applied Sciences and IT, 40-	Local field correction to ionization potential depression of ions in warm/hot dense matter
Yessenbek Aldakul	48 Shashkin Str., 050038 Almaty, Kazakhstan	Criteria for locating the melting and crystallization points of 2D strongly coupled Coulomb systems
Andrew Baczewski Christopher Makait	Sandia National Laboratories  CAU Kiel	Electronic stopping in warm dense matter using Ehrenfest dynamics and time-dependent density functional theory  Stopping in dense quantum plasmas using a new Greens Functions approach
Franziska Reiser	Kiel University Institute of Experimental and	Ion impact on strongly correlated 2D materials stopping power and induced collective electronic dynamics
Madina Seisembayeva	Theoretical Physics, al-Farabi Kazakh National University, Almaty, 050040, Kazakhstan	Electron mean free path and the Dreicer field in dense semiclassical plasma
Yong Hou	Department of Physics, College of Liberal Arts and Sciences, National University of Defense Technology	Strongly increasing electron-impact-ionization cross section in hot dense plasma by the ion correlation effect and continuous electron decoherence
Moldir Issanova	IETP, Al-Farabi Kazakh National University	Transport properties of inertial confinement fusion dense plasmas
Yernur Kuanyshbaiuly	IETP al-Farabi KazNU, 71 Al-Farabi str., 050040 Almaty, Kazakhstan; Institute of Applied Science and IT, 40- 48 Shashkin Str., 050038 Almaty, Kazakhstan	Dissociation of quarkonium in collisional quark-gluon plasma
Alexander Debus	Helmholtz-Zentrum Dresden- Rossendorf (HZDR)	Scaling EUV and X-ray Thomson Scattering Sources to Optical Free-Electron Laser Operation using Traveling-Wave Thomson-Scattering
Motoaki Nakatsutsumi	European XFEL, Holzkoppel 4, 22869 Schenefeld, Germany	Nanoscale subsurface dynamics of solids by grazing-incidence x-ray scattering with an intense laser
Thomas Miethlinger  Assan Abdirakhmanov	Institute of Experimental and Theoretical Physics, Al-Farabi Kazakh	Surrogate Modelling of Ion Acceleration and Overdense Laser-Plasma Interactions  Rotation of ring-shaped dust structures in a stratified glow discharge in magnetic field
	National University, Almaty, Kazakhstan	
Assan Abdirakhmanov	Institute of Experimental and Theoretical Physics, Al-Farabi Kazakh	Dust particles under the influence of transverse magnetic fields in DC glow discharge
7 to dail 7 to dail dail annual o	National University, Almaty, Kazakhstan	
Rakhymzhan Zhumadilov	Al-Farabi Kazakh National University	The effect of nanoparticles to plasma emission intensity of the RF discharge
Rakhymzhan Zhumadilov Ranna Masheyeva Sergey Pavlov		The effect of nanoparticles to plasma emission intensity of the RF discharge  Charging of dust particles in space plasma in the presence of the suprathermal electrons  Dusty plasma in a strong and sharply inhomogeneous magnetic field