

Technical Session	Technical Session Organizer
1.5 Dusty and Strongly-Coupled Plasmas	Michael Bonitz (bonitz@theo-physik.uni-kiel.de)

Session TU 2.2: Dusty and Strongly Coupled Plasmas

Tuesday, May 23, 2017 from 15:00-16:45, Wildwood 10

Session Chairs:

15:00 TU 2.2-1 (invited) EXTREME STATE OF MATTER: SHOCK EXPERIMENTS AND SIMULATIONS

V. E. Fortov

Joint Institute for High Temperature of RAS, Moscow, Russian Federation

15:30 TU 2.2-2 NON-LINEAR PROPERTIES OF DENSE PLASMA

G. A. Pavlov

Institute of problems of chemical physics RAS, Chernogolovka, Moscow region, Russian Federation

15:45 TU 2.2-3 COLLISIONAL PLASMA WAKES OF SMALL PARTICLES

S. Sundar, H. Kaehlert, I. Schnell, J. -P. Joost, P. Ludwig, M. Bonitz

ITAP, Christian-Albrechts-Universitaet zu Kiel, Kiel, Germany

16:00 TU 2.2-4 EFFECT ON COLLISIONAL PHASE SHIFT OF TWO DUST ACOUSTIC SOLITARY WAVES IN A DUSTY PLASMA

N. S. Saini, K. Singh

Department of Physics, Guru Nanak Dev University, Amritsar, Punjab, India

16:15 TU 2.2-5 FOUNDATIONS OF QUANTUM HYDRODYNAMICS FOR DENSE PLASMAS

Z. Moldabekov^{1,2}, M. Bonitz¹, T. Ramazanov²

¹*Institut fuer Theoretische Physik und Astrophysik, Christian-Albrechts-Universitaet zu Kiel, Kiel, Germany*

²*Institute for Experimental and Theoretical Physics, Al-Farabi Kazakh National University, Almaty, Kazakhstan*

16:30 TU 2.2-6 PLASMA OSCILLATIONS AND EXPANSION OF ULTRA-COLD PLASMA IN MAGNETIC FIELD

Y. Choi¹, A. Christlieb², J. P. Verboncoeur²

¹*Institute for Cyber-Enabled Research, Michigan State University, East Lansing, MI, United States*

²*Computational Mathematics, Science and Engineering Department, Michigan State University, East Lansing, MI, United States*