

Scientific Program of HIF 2018

Monday Morning (8/20, 08:50~09:00)		Opening (Chair: Hong Jin Kong)	
Opening Remark (5')	Dieter H.H. Hoffmann <i>hoffmann@physik.tu-darmstadt.de</i>		
Wecome Address (5')	Hong Jin Kong <i>hjkong@kaist.ac.kr</i>		
Monday Morning (8/20, 09:00~12:30)		Heavy Ion Inertial Fusion and Related Topics (Chair: Hong Jin Kong)	
MoM-01 (25' + 5')	Dieter H.H. Hoffmann <i>hoffmann@physik.tu-darmstadt.de</i>	From Inertial Fusion Energy to Accelerator Driven High Energy Density Physics	
MoM-02 (25' + 5')	Shigeo Kawata <i>kwt@cc.utsunomiya-u.ac.jp</i>	Fuel Target Uniform Implosion in Heavy Ion Inertial Fusion	
MoM-03 (25' + 5')	Yongtao Zhao <i>zhaoyongtao@xjtu.edu.cn</i>	Stopping and transportation of ion beam in plasma, and perspectives on heavy-ion driven inertial fusion (HIF) and HEDP in China	
MoM-04 (25' + 5')	Claude Deutsch <i>claudedeutsch@u-psud.fr</i>	Correlated Ion Stopping in ultra-dense plasmas of ICF concern	
MoM-05 (25' + 5')	Taufik <i>taufikis@gmail.com</i>	Study of an Injector (Induction Microtron) for Giant Cluster Ion Inertial Fusion Driver	
MoM-06 (25' + 5')	Ken Takayama <i>takayama@post.kek.jp</i>	Study on the Main Driver for Giant Cluster Ion Inertial Fusion (G-CLIF)	
Monday Afternoon (8/20, 14:00~18:00)		Beam-Plasma, Laser-Plasma Interactions (Chair: Shigeo Kawata/Masao Okamura)	
MoA-01 (20' + 5')	Rui CHENG <i>chengrui@impcas.ac.cn</i>	Low energy ion beam – plasma interaction investigation at IMP	
MoA-02 (20' + 5')	Sebastian Klammes <i>s.klammes@gsi.de</i>	Very cold and very short ultra-relativistic heavy-ion bunches from the FAIR SIS100 for plasma physics experiments	
MoA-03 (20' + 5')	Zhanghu Hu <i>zhanghu@dlut.edu.cn</i>	Transport and structure evolution of intense ion beams in collisionless plasmas with detailed particle-in-cell simulations	
MoA-04 (20' + 5')	Bin He <i>hebin-rc@163.com</i>	Ab initio simulation of the energy loss experiment for alpha particles moving in discharged H plasmas	
MoA-05 (20' + 5')	Shigeo Kawata <i>kwt@cc.utsunomiya-u.ac.jp</i>	Individual Ion Behaviour of Si Cluster in Solid	
MoA-06 (20' + 5')	Rajabbay Khaydarov <i>rtkhaydarov@yahoo.com.ph</i>	Effect of structural defects in Al ₂ O ₃ and Al(Mn) on the efficiency of interaction with intense laser radiation	
MoA-07 (20' + 5')	Kookjin Moon <i>kookjine@unist.ac.kr</i>	Trapping of Ionized Electrons for Evolving Electron Beam-Driven Plasma Wakefield Accelerator	
MoA-08 (20' + 5')	Dong Wu <i>wudong@siom.ac.cn</i>	Particle-in-cell simulations of intense laser-solid interactions	
MoA-09 (20' + 5')	Jieru Ren <i>renjieru@xjtu.edu.cn</i>	Stopping of laser-accelerated ion beam in dense plasma	

Tuesday Morning (8/21, 09:00~12:00)	Ion sources, High-Power Accelerators (Chair: Yongtao Zhao/Claude Deutsch)	
TuM-01 (20' + 5')	Masahiro Okamura <i>okamura@bnl.gov</i>	Laser ion source with multiple targets for robust operation
TuM-02 (20' + 5')	Takahiro Karino <i>dt167105@cc.utsunomiya-u.ac.jp</i>	Laser Energy Dependence of Plasma Instability by Solenoid Magnetic Field
TuM-03 (20' + 5')	Kazumasa Takahashi <i>kazumasa@vos.nagaokaut.ac.jp</i>	Emittance measurement of laser ion source with pulsed magnetic field
TuM-04 (20' + 5')	Liang Lu <i>luliang@impcas.ac.cn</i>	Study on a super high intensity injector for HIF
TuM-05 (20' + 5')	Yukihiro Soga <i>ysoga@staff.kanazawa-u.ac.jp</i>	Experimental study on axially compressed electron plasma for a simulator of space-charge dominated beam
TuM-06 (20' + 5')	Dong-O Jeon <i>jeond@ibs.re.kr</i>	Classification of Space-Charge Resonances and Instabilities
TuM-07 (20' + 5')	Takashi Kikuchi <i>tkikuchi@vos.nagaokaut.ac.jp</i>	Compact Beam Simulator for Beam Dynamics Study During Pulse Compression in Inertial Confinement Fusion Driven by Quantum Beam
Wednesday Morning (8/22, 09:00~12:30)	Matters at Extreme I: WDM, HEDP, Plasmas (Chair: Takashi Kikuchi/Ken Takayama)	
WeM-01 (20' + 5')	Konstantin Khishchenko <i>konst@ihed.ras.ru</i>	Equation of State for Warm Dense Gold
WeM-02 (20' + 5')	Robert Cauble <i>cauble@llnl.gov</i>	TBA
WeM-03 (20' + 5')	Yuyu Wang <i>wangyuyu@impcas.ac.cn</i>	Electron emission by highly charged ions impacting on fusion-relevant tungsten surface
WeM-04 (20' + 5')	Merlan Dosbolayev <i>merlan@physics.kz</i>	Dynamic properties of pulsed dusty plasma and erosion process
WeM-05 (20' + 5')	Toru Sasaki <i>sasakit@vos.nagaokaut.ac.jp</i>	Thermal conductivity measurement of warm dense matter using laser-induced rigid-capillary fluorescence
WeM-06 (20' + 5')	Yuki Uchida <i>uchida@stn.nagaokaut.ac.jp</i>	Measurement for Blister on Tungsten Irradiated by 4 MeV Helium Ion Beam for Damage of Reactor Wall in Nuclear Fusion System
WeM-07 (20' + 5')	Hyun Kyung Chung <i>hchung.hedp@gist.ac.kr</i>	Atomic processes in dense plasmas relevant to high energy density physics
WeM-08 (20' + 5')	Bo Ram Lee <i>brlee@ibs.re.kr</i>	Ultra-intense laser interaction with argon at near-critical density
Wednesday Afternoon (8/22, 14:00~15:30)	Matters at Extreme II: WDM, HEDP, Dark Matter (Chair: Moses Chung)	
WeA-01 (20' + 5')	Laszlo P. Csernai <i>laszlo.csernai@uib.no</i>	Radiation dominated implosion with plasmonic nano-shells
WeA-02 (20' + 5')	Vural Kaymak <i>vural@tp1.uni-duesseldorf.de</i>	Ultra-high energy density physics in aligned nanowire arrays
WeA-03 (20' + 5')	Soohyung Lee <i>soohyunglee@ibs.re.kr</i>	CAPP-8TB: Axion Dark Matter Search in 6.62 - 7.04 μeV mass range
WeA-04 (20' + 5')	Woohyun Chung <i>gnuahcw@ibs.re.kr</i>	CAPP's pilot axion experiment with a target mass range around 10 μeV

Wednesday Afternoon (8/22, 16:00~18:00)		Poster Session
P-01	Claude Deutsch <i>claudedeutsch@u-psud.fr</i>	Mesonic bound states in WDM and FIS plasmas of fusion catalysis concern
P-02	Xianming Zhou <i>zhouxianming@impcas.ac.cn</i>	Anisotropic of x-ray emission induced by high energy heavy ions
P-03	Toru Sasaki <i>sasakit@vos.nagaokaut.ac.jp</i>	Study on fuel pellet design for giant cluster-ion-beam inertial-confinement-fusion
P-04	Lin Zhang <i>zhanglin735wa@stu.xjtu.edu.cn</i>	Warm-Dense-Matter State of Iron Generated by Intense Heavy Ion Beams
P-05	Kookjin Moon <i>kookjine@unist.ac.kr</i>	Effect of Energy Chirp on the Self-Modulated Driver Beam in Plasma Wakefield Accelerator
P-06	Minsup Hur <i>mshur@unist.ac.kr</i>	Instability in Laser-based Ion Beam Acceleration
P-07	Yuta Ishikawa <i>ishikawa.y.ai@m.titech.ac.jp</i>	Mass separated particle flux from a laser-ablation metal cluster source
P-08	Kyoung-Hun Yoo <i>lucky8287@unist.ac.kr</i>	Characterization of the Extraction Process of the Cold Antiprotons from Multi-Ring Electrode Trap using WARP Particle-In-Cell (PIC) Code
P-09	Yanning Zhang <i>zyn819@stu.xjtu.edu.cn</i>	Experimental Evidence on the Influence of Projectile Excited States on Ion Stopping Processes in Plasma
P-10	Yusuke Nakayama <i>nnakayama@stn.nagaokaut.ac.jp</i>	Measurement of Flyer Accelerated by Electro-Thermal Gun Toward Warm Dense Matter Generation of Guiding Cone Material for Inertial Confinement Fusion with Fast Ignition
P-11	Guansong Feng <i>gsfeng@stu.xjtu.edu.cn</i>	Design and Research of RF Source
P-12	Chang-Kyu Sung <i>csung@unist.ac.kr</i>	A relativistic-muon dedicated non-destructive beam profile measurement for online-monitoring of g-2/EDM experiment at J-PARC
P-13	Hyock Jun Son <i>shj@ibs.re.kr</i>	Design and component tests of EBIS charge breeder for the Rare Isotope Science Project
Friday Morning (8/24, 09:00~10:30)		Overview/Tutorial (Chair: Dieter H.H. Hoffmann)
FrM-01 (25' + 5')	Moses Chung <i>mchung@unist.ac.kr</i>	Overview of Accelerator Projects and Laboratory Astrophysics Program in Korea
FrM-02 (25' + 5')	Byoung-Ick Cho <i>bicho@gist.ac.kr</i>	New Opportunities in High Energy Density Science with X-ray Free Electron Lasers
FrM-03 (25' + 5')	Hong Jin Kong <i>hjkong@kaist.ac.kr</i>	High power and high repetition rate lasers for inertial fusion
Summary & Closing Remark (30')	Dieter H.H. Hoffmann <i>hoffmann@physik.tu-darmstadt.de</i>	