

## HEDP2010 & CUP Daily Schedule

<b>Wednesday (Oct. 13)</b>	<b>Thursday (Oct. 14)</b>	<b>Friday (Oct. 15)</b>	<b>Saturday (Oct. 16)</b>
13:00-18:00 Registration (Faculty Culb, SJTU)	08:30-08:45 <b>Opening remarks(CUP)</b>	08:30-08:45 <b>Opening remarks(HEDP)</b>	
	<b>CUP Session 1</b> 08:45-09:00 H. Takabe 09:00-09:30 Jiamin Yang 09:30-10:00 K. A. Tanaka 10:00-10:30 C. T. Zhou	<b>HEDP Session 1</b> 08:45-09:15 谷渝秋 09:15-09:45 Hongbin Zhuo 09:45-10:00 Yanyun Ma 10:00-10:15 Bin Liu	<b>CUP Session 5</b> 09:00-09:30 Y. T. Li 09:30-10:00 M. Hashida 10:00-10:30 Baifei Shen
	<b>10:30-11:00 Group Photo &amp; Coffee Break</b>	<b>10:15-10:30 Coffee Break</b>	<b>10:30-10:45 Coffee Break</b>
	<b>CUP Session 2</b> 11:00-11:30 H. Takabe 11:30-12:00 X. Q. Yan 12:00-12:30 A. Sagisaka	<b>HEDP Session 2</b> 10:30-11:00 陈黎明 11:00-11:15 Jianqin Dong 11:15-11:30 Guang-yue Hu 11:30-11:45 王加祥 11:45-12:00 Cao Lei-Feng	<b>CUP Session 6</b> 10:45-11:15 H. Yoneda 11:15-11:45 Xinguang Huang 11:45-12:15 N. Ohnishi
	<b>Lunch 12:30-13:30</b>	<b>Lunch 12:00-13:30</b>	<b>Lunch</b>
	<b>CUP Session 3</b> 13:30-14:00 A. Sunahara 14:00-14:30 Jinghong Li 14:30-15:00 H. Sakagami	<b>HEDP Session 3</b> 13:30-14:00 Jianmin Yuan 14:00-14:30 J. Y. Zhong 14:30-14:45 董全力 14:45-15:00 Wei Yu 15:00-15:15 L. F. Wang	<b>HEDP Session 5</b> 14:00-14:30 A. L. Lei 14:30-15:00 Xiaonong Zhu 15:00-15:15 温贤伦 15:15-15:30 Lu Zhang
		<b>Laboratory astrophysics and high energy density matters Chaired by Jie Liu</b>	<b>Fast Ignition and high energy density matters Chaired by Yanyun Ma</b>

18:00 Reception (Faculty Club, SJTU)	<b>Coffee Break</b> 15:00-15:15		<b>Coffee Break and Poster Session</b> 15:15-16:45		<b>Coffee Break</b> 15:50-16:05	
	<b>CUP Session 4</b>	<b>Diagnostic</b> Chaired by Yutong Li	<b>HEDP</b> Session 4	<b>Diagnostic of laser plasmas</b> Chaired by Yuqiu Gu	<b>HEDP</b> Session 6	<b>High energy density matters</b> Chaired by Jian Zheng
	15:15-15:45	H. Habara	16:45-17:00	赵宗清	15:45-16:15	Di-Fa Ye
	15:45-16:15	Jian Zheng	17:00-17:15	张红平	16:15-16:30	Jiayu Dai
	<b>16:15-17:30</b>	<b>Discussion toward next CUP</b> (K. A. Tanaka)	17:15-17:30	单连强	16:30-16:45	辛建婷
			17:30-17:45	滕建	16:45-17:00	Mu Li
			17:45-18:00	王首钧		
	<b>Dinner</b>		<b>Banquet 18:30 – 21:00</b> (Faculty Club)		<b>Dinner</b>	
	<b>Wednesday</b> <b>(Oct. 13)</b>	<b>Tuesday (Oct. 14)</b>	<b>Friday (Oct. 15)</b>	<b>Saturday (Oct. 16)</b>		

\* Conference site: No. 303 Auditorium, 3<sup>rd</sup> floor, Datong Plaza, Xuhui Campus, Shanghai Jiao Tong University (SJTU)

会议地点: 上海交通大学上海高级金融学院 303 会议厅 (上海交通大学徐汇校区达通广场 3 楼)

## Program of China-Japan CUP Seminar on Laser Plasma Physics (CUP seminar)

Oct. 14-16, 2010, Shanghai Jiao Tong University, Xuhui Campus

### October 13, 2010 (Wednesday)

13:00-18:00	Registration at SJTU Faculty Club
18:00	Reception, Faculty Club

### October 14, 2010 (Thursday)

08:30-08:45	Opening remarks
Session 1: Review Chaired by Shaoping Zhu	
08:45-09:00	H. Takabe, CUP summary
09:00-09:30	Jiamin Yang, Experimental progress on laser-driven fusion and radiation-related studies in RCLF
09:30-10:00	K. A. Tanaka, Review of Relativistic Fast Electrons and Laser Light Relevant to Fast Ignition
10:00-10:30	C. T. Zhou, Recent status for high energy density plasma studies at IAPCM

Coffee break

Session 2: Laser astrophysics and acceleration Chaired by Hitoshi Sakagami	
11:00-11:30	H. Takabe, Grand Challenge Laser Astrophysics on Weibel Instability, meta- and micro-scale Magnetic Turbulence Resulting Nonlinear Structure Formation of High-Mach Collisionless Shock and Stochastic Cosmic Ray Acceleration
11:30-12:00	X. Q. Yan, Laser driven particle accelerator based on nanometer-scale targets
12:00-12:30	A. Sagisaka, Laser-driven proton generation with a thin-foil target

Lunch

Session 3: IFE simulation Chaired by Cangtao Zhou	
13:30-14:00	A. Sunahara, Numerical Simulation of Pre-formed Plasma Generated by Low Intensity Pre-Pulse Before Main Heating Laser in Fast-Ignition
14:00-14:30	Jinghong Li, Numerical Simulations of Inertial Confinement Fusion Hohlraum by Integrated-LARED Code
14:30-15:00	H. Sakagami, Collisional Effect on Fast Electron Generation and Transport in Fast Ignition

Coffee break

Session 4: Diagnostic Chaired by Yutong Li	
15:15-15:45	H. Habara, Angular resolved electron spectra relevant to core heating
15:45-16:15	Jian Zheng, Theoretical and experimental investigation of Thomson scattering from laser-produced plasmas
16:15-17:30	Discussion toward next CUP (K.A.Tanaka)

## October 15, 2010 (Friday)

08:30-12:00	Oral session for Domestic HEDP Symposium
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Lunch

13:30-17:30	Oral and poster sessions for Domestic HEDP Symposium
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Banquet 18:30

## October 16, 2010 (Saturday)

Session 5: LPI Chaired by Xueqin Yan	
09:00-09:30	Y. T. Li, Over $\mu$ J terahertz pulses from intense femtosecond laser-solid interactions
09:30-10:00	M. Hashida, Periodic grating structures self-formed on metal surfaces under femtosecond laser pulse irradiation
10:00-10:30	Baifei Shen, Single-cycle short-wavelength laser pulse towards Schwinger Limit

Coffee break

Session 6: Application Chaired by Kazuo Tanaka	
10:45-11:15	H. Yoneda, Nonlinear optical phenomena in extreme ultra-violet region with high energy density conditions
11:15-11:45	Xiuguang Huang, Experimental study and application of laser-driven shock waves at SILP
11:45-12:15	N. Ohnishi, Computational Study of Shock Instability and Its Application

Lunch

13:30-17:00	Oral and poster session for Domestic HEDP Symposium
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## Program of the 2nd China National Symposium on High Energy Density Physics

Oct. 14-16, 2010, Shanghai Jiao Tong University, Xuhui Campus

### October 13, 2010 (Wednesday)

13:00-18:00	Registration at Faculty Club of SJTU
18:00	Reception, Faculty Club

### October 14, 2010 (Thursday)

9:00-17:00	Program of China-Japan CUP Seminar on Laser Plasma Physics
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### October 15, 2010 (Friday)

08:30-08:45	Opening remarks
HEDP Session 1: Laser Acceleration Chaired by Baohan Zhang	
08:45-09:15	谷渝秋, 基于 SILEX-I 百太瓦飞秒激光的尾场电子加速研究进展 (invited)
09:15-09:45	Hongbin Zhuo, Quasimonoenergetic proton bunch generation by dual-peaked electrostatic-field acceleration in foils irradiated by intense linearly polarized lasers (invited)
09:45-10:00	Yanyun Ma, A new electron injection regime in laser wake field acceleration
10:00-10:15	Bin Liu, Ion jet generation in the ultra-intense laser interactions with rear-side concave target

Coffee break 10:15-10:30

HEDP Session 2: Laser driven X-ray sources Chaired by Jianmin Yuan	
10:30-11:00	陈黎明, 高对比度激光产生硬 X 射线研究 (invited)
11:00-11:15	Jiaqin Dong, 120ps, 4.75keV Ti Plasma X-ray Source and its application in HEDP experiments
11:15-11:30	Guang-yue Hu (胡广月), Multi-keV x-ray source generated by laser irradiated solid targets
11:30-11:45	王加祥, 自由电子在强激光场中的量子电动力学效应研究

11:45-12:00	Cao Lei-Feng (曹磊峰), Single order X-ray diffraction with photon sieves
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Lunch 12:00-13:30

HEDP Session 3: Laboratory astrophysics and high energy density matters Chaired by Jie Liu	
13:30-14:00	Jianmin Yuan, The ordered structures from warm to hot dense matters: a description based on first principles molecular dynamics (invited)
14:00-14:30	J. Y. Zhong, Simulating magnetic reconnection phenomena in solar flares with intense lasers (invited)
14:30-14:45	董全力, 利用辐射流体力学程序与实验对比研究等离子体发射光谱
14:45-15:00	Wei Yu, 2D analytical model for the interaction of a short, intense laser pulse with solid target
15:00-15:15	L. F. Wang, Jetlike long spike in ablative Rayleigh-Taylor instability

Break and poster session 15:15-16:45

HEDP Session 4: Diagnostic of laser plasmas Chaired by Yuqiu Gu	
16:45-17:00	赵宗清, 超快微焦点 X 射线源照相实验研究
17:00-17:15	张红平, 准等熵压缩实验数据的反积分处理
17:15-17:30	单连强, 利用 X 射线背光照相提取锥壳靶预压缩面密度的时间演化
17:30-17:45	滕建, 时间分辨的啁啾质子照相
17:45-18:00	王首钧, 高能量激光产生的相向对流等离子体无碰撞冲击波的诊断

Banquet 18:30

## October 16, 2010 (Saturday)

9:00-12:00	Program of China-Japan CUP Seminar on Laser Plasma Physics
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HEDP Session 5: Fast Ignition and high energy density matters Chaired by Yanyun Ma	
14:00-14:30	A. L. Lei, Fast electron generation with micro-structured targets (invited)
14:30-15:00	Xiaonong Zhu, Characterization of Micro Air Plasma and Plume Dynamics Associated with Femtosecond Laser Ablation of Solid Targets (invited)
15:00-15:15	温贤伦, 不同极化态下超短超强激光产生超热电子发射研究
15:15-15:30	Lu Zhang, Study on optimal inertial-confinement-fusion hohlraum wall radial density and wall loss

Break and poster session 15:30-15:45

HEDP Session 6: High energy density matters Chaired by Jian Zheng	
15:45-16:15	Di-Fa Ye, Strong-field double ionization at the transition to below the recollision threshold (invited)
16:15-16:30	Jiayu Dai, Unified first principles description from warm dense matter to ideal ionized gas plasma: electron-ion collisions induced friction
16:30-16:45	辛建婷, 飞秒激光在铝膜中驱动冲击波的特性
16:45-17:00	Mu Li, Numerical Analysis of Laser-driven Reservoir Dynamics for Shockless Loading



## Poster presentations

序号	作者	题目
1	L. G Huang	Laser acceleration of quasi-monoenergetic protons from shaped targets irradiated by circularly polarized intense laser pulses
2	Lei Zhang	Astrophysics relevant dielectronic recombination process in laser-produced plasmas
3	J. Y. Mao	A transmission curved crystal spectrometer for high resolution hard x-ray spectroscopy
4	张璐	高通量 Ar 的 Ka 射线产生及其单发成像
5	Zhang Xiaoding	The X-ray Thomson scattering experiment for warm C foam and the spectrum fitting
6	王晓方	用于激光尾波场加速的气体靶模拟研究
7	邓邦林	类锂铜等离子体光谱模拟
8	Lu-Le Yu	Generation of tens of GeV quasi-monoenergetic proton beams from a moving double layer formed by ultraintense lasers at intensity $10^{21}$ - $10^{23}$ W/ cm <sup>2</sup>
9	A.K. Li	The discrepancy between classical and quantum treatment of harmonic generation by relativistic electrons in strong laser fields
10	Na Ren	Electron-Positron Pair creation in time-dependent external fields
11	M. Jiang	Boson localization in the pair creation process
12	Hongjie LIU	空心锥靶中超热电子的产生和输运
13	W. Su	Numerical simulations of particle scattering off of a supercritical potential barrier under quantum field theory
14	Chun Li	Observation of strong terahertz wave generation by laser interacting with solid targets
15	Ya Bai	Terahertz radiation by two color fields and terahertz-wave-plasma characterization
16	焦春晔	基于 SILEX 的质子束特性及质子照相实验初探
17	Liu Dong-Xiao	The Calibration of GafChromic RadioChromic film HD-810 for proton dosimetry
18	董克攻	充气型放电毛细管的密度测量及磁流体模拟
19	吴玉迟	ILEX-I 装置上充气型放电毛细管电子加速实验初探
20	朱斌	基于充气型毛细管的超短激光波导实验研究
21	高宇林	基于光子筛的软 X 光谱仪
22	谭放	全光汤姆逊散射 X 光源数值模拟
23	巫殷忠	单脉冲太赫兹波的频谱测量
24	臧华平	Design, fabrication, and test of the zigzag diffraction grating for soft X region
25	余金清	同极化条件下激光-等离子体相互作用研究
26	辛国国	Dependence of the correlated-momentum patterns in double ionization on the carrier-envelope phase and intensity of a few-cycle laser pulse