

PROGRAM
6-th Asian Summer School and Symposium
on
Laser-Plasma Acceleration and Radiation

3rd-6th September 2013
Kansai Photon Science Institute, JAEA

【1st day】 Tuesday, September 3. 9:00 - 17:40

9:00 – 9:40	Opening (Y. KATO, YU. I. MALAKHOV, H. NAMBA, P. BOLTON)	
Chair: Sergei BULANOV (JAEA, Japan)		
9:40 – 10:20	Yoshiaki KATO (GPI, Japan)	Science and applications of photons and particle beams
10:20 – 10:40	Coffee Break	
Chair: Tetsuya KAWACHI (JAEA, Japan)		
10:40 - 11:20	Chan Hee NAM (GIST, Korea)	High harmonic x-ray sources for attosecond science
11:20 - 12:00	Paul BOLTON (JAEA, Japan)	Overview of laser development and applications at KPSI
12:00 - 13:00	Lunch (KPSI Cafeteria)	
Chair: Masaki KANDO (JAEA, Japan)		
13:00 - 13:40	Markus ROTH (GSI, Germany)	Ion beams based on relativistic transparency of solids and their applications
13:40 - 14:20	Cameron GEDDES (LBNL, USA)	Laser plasma accelerators and MeV photon sources
14:20 – 15:00	Daniele MARGARONE (ELI-Beamlines, Czech Republic)	ELI Project
15:00 – 15:20	Group Photo and Coffee Break	
Chair: Sergei GUS'KOV (LPI, Russia)		
15:20 - 16:00	Yasuaki KISHIMOTO (IAE, Japan)	From canonical to non-canonical variables in describing laser-plasma interaction
16:00 - 16:40	Anatoly I. NEISTADT (IKI, Russia)	Passages through resonances, and captures into resonance in dynamics of charged particles in electromagnetic field
16:40 - 17:20	Tae-Moon JEONG (GIST, Korea)	Femtosecond high power laser and high field physics
17:20 – 18:00	Keiichi YOKOYAMA (JAEA, Japan)	Isotope-selective heating enabled with intense terahertz pulse trains
18:00 - 20:00	Get-Together Party (KPSI Cafeteria)	

【2nd day】 Wednesday, September 04, 2013. 9:00 - 17: 30

Chair: Do-Kyeong KO (GIST, Korea)		
9:00 – 9:40	Masakatsu MURAKAMI (Osaka U., Japan)	Laser Ion Acceleration: From TNSA to Nanotube Accelerator
9:40 - 10:20	Koichiro TANAKA (ICEMS, Japan)	THz radiation matter interaction
10:20 – 10:40	Coffee Break	
Chair: Cameron GEDDES (LBNL, USA)		
10:40 – 11:20	Masaki KANDO (JAEA, Japan)	Relativistic Flying mirrors for Ultrashort X-ray generation
11:20 - 12:00	Thomas GRISMAYER (IST, Portugal)	On the path of pair production: self consistent QED-PIC modelling
12:00 - 13:00	Lunch (KPSI Cafeteria)	
Chair: Ryuji Itakura (JAEA, Japan)		
13:00 - 13:40	Hyong SUK (GIST, Korea)	Beam physics in laser-plasma acceleration
13:40 - 14:20	Victor KULAGIN (MSU, Russia)	Laser pulse interaction with nanofilms: generation of relativistic electron mirrors and coherent attosecond x-ray pulses
14:20 - 15:00	Liming CHEN (IOP, China)	Study of laser-driven electron acceleration and X-ray radiation in IOP
15:00 - 15:40	Hidetoshi KATORI (GSE, Japan) "	Optical lattice clocks and their applications
15:40 – 16:00	Coffee Break	
Poster Session Chair : Koichi OGURA (JAEA, Japan)		
16:00 - 17:30		
<div>1. Wang Wei-Min (Institute of Physics, Chinese Academy of Sciences, China) "Terahertz radiation by two-color lasers with the second laser at an arbitrary harmonic"</div> <div>2. Ming Zeng (Department of Physics and Astronomy, Shanghai Jiao Tong University, China) "Measuring the Injection Speed in Ionization-Induced Injections of Laser Wakefield Accelerators"</div> <div>3. Feiyu Li (Laboratory for laser plasma and department of physics and astronomy, Shanghai Jiao Tong University, China) "Dense attosecond electron sheets from laser wakefields using an up-ramp density transition and its implications for intense isolated attosecond pulses"</div> <div>4. Krishna Gopal and D. N. Gupta (Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India) "Electron acceleration by a plasma wave in a magnetic plasma channel"</div> <div>5. Jinju Kim (GIST, Korea) "Investigation of Relativistic Terahertz Properties Generated by Interaction of a High-Power Laser with Underdense Plasmas Using Particle-In-Cell Code "</div> <div>6. Taehee Lee (GIST, Korea) "Laser Beam Transmission in a Tapered Capillary Plasma Source"</div> <div>7. Hui Zhang (SIOM China) "Efficient generation of fusion neutrons from cryogenic-cooled heteronuclear CD4 clusters irradiated by intense femtosecond laser"</div> <div>8. Mizuta Yoshio (Osaka U., Japan) "Wave guided laser wakefield acceleration in splash plasma channels"</div> <div>9. Junghun Shin (Osaka U., Japan) "Probe beam-free Detection of Terahertz Wave by Electroluminescence induced by Intense THz Pulse"</div> <div>10. Akito Sagisaka (JAEA, Japan) "Laser-driven proton generation from a thin-foil target "</div> <div>11. Koichi Ogura (JAEA, Japan) "Fine Spectral Structure of High Order Harmonics Generated by Multi-Terawatt Femtosecond Lasers Focused to Gas Jet Targets"</div> <div>12. Toshihisa Morita (JAEA, Japan) "Proton acceleration by using the deformation and movement of a target"</div> <div>13. Hideyuki Kotaki (JAEA, Japan) "Effect of frequency up-shift of intense laser pulses to plasma channel"</div> <div>14. Koichi Kasuya (Institute of Applied Flows & Institute of Laser Technology, Japan) "A Proposal of More Realistic Fast Ignition IFE Reactor Scheme"</div> <div>15. Jesse Adams (Nanolabz, USA) "Microfabrication of Laser Targets"</div> <div>16. Akira Kon (Osaka U, Japan) "Enhancement of proton acceleration by fast-focusing plasma mirror"</div> <div>17. Kyosuke Izuno (Doshisha U Japan) " Temperature dependent emission properties of Nd3+-doped mixed calcium garnets laser ceramic material for high average power operation "</div> <div>18. Hiromitsu Kiriya (JAEA, Japan) "J-KAREN and future upgrade"</div> <div>19. Stefano. Sinigardi (INFN/University of bologna, Italy) " Routes toward post-acceleration of laser-driven protons "</div>		

[3rd day] Thursday, September 05, 2013. 9:00 - 17:45

Chair: Markus ROTH (GSI, Germany)		
9:00 - 9:40	Katsumi MIDORIKAWA (Riken, Japan)	Generation and application of intense isolated attosecond pulses
9:40 - 10:20	Do-Kyeong KO (GIST, Korea)	Terahertz generation using quasi-phase matching technique
10:20 - 10:40	Coffee Break	
Chair: Liming CHEN (IOP, China)		
10:40 - 11:20	Anatoly FAENOV (JAEA, Japan)	Radiation properties of dense matter pumped by X-ray emission of relativistic laser- produced plasma
11:20 - 12:00	Tomonao HOSOKAI (Osaka U., Japan)	Staged laser wakefield acceleration and stable injector
12:10 - 13:00	Lunch (KPSI Cafeteria)	
Chair: James KOGA (JAEA, Japan)		
13:00 - 13:40	Sergei GUS'KOV (LPI, Russia)	Gbar shock wave driven by high energy electron stream related to shock and fast ignition
13:40 - 14:20	Junji KAWANAKA (ILE, Osaka, Japan)	Characteristic improvement of laser materials and optics operated at low temperature for high power laser system
14:20 - 15:00	Antonio LUCIANETTI (HiLAS, Czech Republic)	How can solid-state lasers be used to achieve inertial fusion and to listen to gravitational waves?
15:00 - 15:20	Coffee Break	
Chair: Keiichi YOKOYAMA (JAEA, Japan)		
SYMPOSIUM		
15:20 - 15:40	Heinrich HORA (University of New South Wales, Sydney, Australia)	Collective electron interaction at ultrafast acceleration of plasma blocks
15:40 - 16:00	Vladimir BUKIN (GPI, Russia)	Pump probe interferometry for laser plasma diagnostics
16:00 - 16:20	Timur ESIRKEPOV (JAEA, Japan)	Prepulse and amplified spontaneous emission effects on the interaction of petawatt class laser with thin solid target
16:20 - 16:40	Alexander PIROZHKOV (JAEA, Japan)	Off-axis high-order harmonics from relativistic underdense plasma
16:40 - 17:30	LAB. TOUR	

【4th day】 Friday, September 06, 2013. 9:00 - 12:00

Chair : Hiromitsu KIRIYAMA (JAEA, Japan)		
09:00 - 09:40	Shigeo KAWATA (Utsunomia U., Japan)	Laser Ion Acceleration Control
09:40 - 10:20	Ryuji ITAKURA (JAEA, Japan)	Multichannel photoionization dynamics of molecules in intense laser fields
10:20 - 10:40	Coffee Break	
Chair : Antonio LUCIANETTI (HiLAS, Czech Republic)		
10:40 -11: 20	Kirk FLIPPO (LANL, USA)	Target designs, fabrication methods, and future outlook
11:20 - 12:00	Closing: Yuri MALAKHOV, Sergei BULANOV, Tetsuya KAWACHI	
12:00 - 13:00	Lunch (KPSI Cafeteria)	