

17th Advanced Accelerator Concepts Workshop

Monday 01 August 2016

WG1: Laser-Plasma - Woodrow Wilson CD (15:30-17:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
15:30	[25] Demonstration of the Excitation and Control of Plasma Wakefields by Multiple Laser Pulses	Prof. HOOKER, Simon
15:50	[31] Interaction Between Laser Pulses and Trailing Wakefields Intersecting at Small Angle for LWFA Charge Yield Enhancement	WEICHMAN, Kathleen
16:10	[14] Electron Acceleration by Laser Driven Plasma Wave Excited by Cross-Focused q-Gaussian Laser Beams in Thermal Quantum Plasma	Prof. SINGH, Arvinder Singh
16:30	[38] GigaGauss solenoidal magnetic fields in plasma bubble and fast synchrotron radiation emittance cooling of laser-plasma accelerated beam	Prof. SERYI, Andrei

Tuesday 02 August 2016

WG1: Laser-Plasma - Woodrow Wilson CD (10:30-12:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
10:30	[95] On the possibilities of LWFA in the self-guided nonlinear blowout regime for 15-100 Joule lasers	Dr. DAVIDSON, Asher
10:50	[72] Multi-GeV scale electron acceleration with self guided laser wakefield accelerators	Mr. PODER, Kristjan
11:10	[63] Recent progress on laser plasma physics and advanced accelerator research at Tsinghua University: experiment and simulation	Prof. PAI, Chih-Hao
11:30	[169] Relativistically self-guided laser pulses and spatio-temporal vortices	Mr. HINE, George

WG1: Joint session with WG4 - Woodrow Wilson CD (13:30-15:00)

-Conveners: Gonsalves Anthony; Chunguang Jing

time	[id] title	presenter
13:30	[58] Low Density Plasma Channels Created by Hydrodynamic Expansion of OFI-heated Plasma Columns	Prof. HOOKER, Simon
13:50	[207] High quality electron bunch generation using a longitudinal density-tailored plasma-based accelerator in the blowout regime	Dr. XU, Xinlu
14:10	[22] Unique acceleration properties in a few skin-depth lon-wake channel with a near-hollow profile	Dr. SAHAI, Aakash
14:30	[39] Electron density determination via broadening and shift of spectral lines	Mr. GOLDBERG, Lars
14:45	[202] Beam energy and quality transformer: Using LWFA electron beams for PWFA	Mr. KARGER, Oliver Simon

WG1: Joint session with WG7 - Woodrow Wilson CD (15:30-17:00)

-Conveners: Gonsalves Anthony; Bruce Carlsten

time	[id] title	presenter
15:30	[166] Electron beams and synchrotron radiation from laser wakefield accelerators for applications	Prof. KRUSHELNICK, Karl
15:45	[80] Betatron radiation produced in wakefield accelerators driven by lasers with orbital angular momentum	Ms. LUIS MARTINS, Joana
16:00	[167] Production of High Energy MeV Gamma Rays through Inverse Compton Scattering	BEHM, Keegan
16:15	[182] X-ray beam source from a Self-modulated laser wakefield accelerator	Mr. LEMOS, Nuno
16:30	[185] Laser-plasma-based Space Radiation Reproduction and Testing in the Laboratory	Prof. HIDDING, Bernhard
16:45	[129] Effect of experimental laser imperfections on laser wakefield acceleration and betatron source	Mr. FERRI, Julien

Wednesday 03 August 2016

WG1: Joint session with WG5 - Woodrow Wilson CD (10:30-12:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
10:30	[127] Few-cycle Optical Probing of Laser Wakefield Acceleration Experiments	Mr. SCHWAB, Matthew
10:50	[56] Plasma-driven ultrashort bunch diagnostics	DORNMAIR, Irene
11:10	[114] Plasma control and diagnostics for 10 GeV on BELLA	Mr. DANIELS, Joost
11:30	[52] Commissioning of the LUX Beamline for Laser-Plasma Driven Undulator Radiation	MAIER, Andreas R.

Thursday 04 August 2016

WG1: Laser-Plasma - Woodrow Wilson CD (10:30-12:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
10:30	[225] Gas density structure of supersonic flows impinged on by thin blades for laser-plasma accelerators	Dr. MAO, Hann-Shin
10:50	[172] MeV electron acceleration at 1 kHz with <10 mJ laser pulses	SALEHI, Fatholah
11:10	[131] Shock-Front Injection for Laser Plasma Acceleration	Ms. SWANSON, Kelly
11:30	[200] Control and steering of quasi-monoenergetic electron beams from laser plasma accelerators	Dr. TSAI, Hai-En

WG1: Joint session with WG8 - Woodrow Wilson CD (13:30-15:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
13:50	[244] CO2 Laser-Driven Self-Modulated Laser Wakefield Experiment at ATF/BNL	Mr. WELCH, James
14:10	[7] Mid-IR lasers for energy frontier plasma accelerators	Dr. POGORELSKY, Igor
14:30	[5] Project towards CO2-laser-driven wake-field accelerator with external injection	Prof. LITVINENKO, Vladimir
14:50	[273] Discussion: The future of CO2 lasers for LWFA	

WG1: Laser-Plasma - Woodrow Wilson CD (15:30-17:00)

-Conveners: Gonsalves Anthony

time	[id] title	presenter
15:30	[150] High Energy Electron Acceleration from Underdense Plasmas Using OMEGA EP Laser	Mr. BATSON, Thomas
15:50	[152] Role of direct laser acceleration of electrons in a laser wakefield accelerator with ionization injection	Prof. JOSHI, Chan
16:10	[274] WG1 General discussion	