

17th Advanced Accelerator Concepts Workshop

Monday 01 August 2016

WG7: Radiation - Woodrow Wilson B (15:30-17:00)

-Conveners: Bruce Carlsten

time	[id] title	presenter
15:45	[11] High Brightness Gamma-Ray Production at Fermilab FAST Facility	MIHALCEA, Daniel
16:00	[8] CO2 laser driven Compton scattering for future applications spanning from compact radiation sources to linear colliders	Dr. POGORELSKY, Igor
16:15	[151] Redshifting and harmonic radiation in the nonlinear Laser-Thomson scattering interaction	Dr. IRMAN, Arie
16:30	[153] Optimization of Compton source Performance through Electron Beam Shaping	Mr. MALYZHENKOV, Alexander
16:45	[73] High Duty Cycle Inverse Compton Scattering X-ray Source	Dr. MUROKH, Alex

Tuesday 02 August 2016

WG7: Radiation - Woodrow Wilson B (10:30-12:00)

-Conveners: Bruce Carlsten

time	[id] title	presenter
10:30	[99] Probing Warm Dense Matter with Betatron X-ray Radiation at LCLS	Dr. ALBERT, Félicie
10:45	[130] Imaging of biologic samples using betatron radiation	Dr. LOPES, Nelson
11:00	[55] Laser-accelerated comb-like electron beams as a source of pulsed polychromatic gamma-rays.	Dr. KALMYKOV, Serge
11:15	[71] Narrow bandwidth Thomson photon source development using Laser-Plasma Accelerators	Dr. GEDDES, Cameron
11:30	[236] Production of 10-75 MeV Compton Gamma-rays from a 1-2 GeV Laser Wakefield Accelerator	Mr. SHAW, Joseph M.

WG7: Radiation - Woodrow Wilson B (13:30-15:00)

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time	[id] title	presenter
13:30	[203] Tunable multicolor radiation from inverse Compton scattering with plasma wakefield accelerated electrons	Mr. SCHERKL, Paul
13:45	[183] Scaling EUV and X-ray Thomson Sources to Optical Free-Electron Laser Operation with Traveling-Wave Thomson Scattering	Dr. DEBUS, Alexander
14:00	[126] Plasma channel undulator using higher-order laser modes	Dr. RYKOVANOV, Sergey
14:15	[65] A 30 GHz Flying Electromagnetic Undulator	Dr. KUZIKOV, Sergey

Wednesday 03 August 2016

WG7: Radiation - Woodrow Wilson B (10:30-12:00)

-Conveners: Bruce Carlsten

time	[id] title	presenter
10:30	[26] Integrable RCS as a proposed replacement for Fermilab Booster	Dr. ELDRED, Jeffrey
10:45	[106] Construction of the Non-linear Insert for the IOTA Ring	Dr. O'SHEA, Finn
11:00	[142] Understanding perturbations to the nonlinear integrable optics in IOTA	Dr. COOK, Nathan
11:15	[240] The University of Maryland Electron Ring distributed octupole lattice: marrying quasi-integrable optics with the FODO lattice.	Ms. RUISARD, Kiersten
11:30	[41] Compact, Energy Efficient Superconducting Asymmetric ERL for Ultra-high Fluxes of X-ray and THz Radiation	Dr. KONOPLEV, Ivan

Thursday 04 August 2016

WG7: Radiation - Woodrow Wilson B (10:30-12:00)

-Conveners: Bruce Carlsten

time	[id] title	presenter
10:30	[256] Tapering-Enhanced Stimulated Superradiant Amplification	MUSUMECCI, Pietro
10:45	[217] Development of the two-stream instability in a single bunch	Dr. YAMPOLSKY, Nikolai
11:00	[102] Enhanced multi-MeV photon emission by a laser-driven electron beam in a self-generated magnetic field	Dr. AREFIEV, Alexey
11:15	[233] OPTIMIZATION OF GAMMA PHOTON BEAMS GENERATION USING ULTRA HIGH INTENSITY LASERS TO STUDY THE TWO-PHOTON BREIT-WHEELER PAIR GENERATION PROCESS	Prof. D'HUMIÈRES, Emmanuel
11:30	[107] Depletion of intense fields	Dr. BULANOV, Stepan

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13:30	[156] Double Emittance Exchanger as a Bunch Compressor for the MaRIE XFEL electron beam line at 1GeV	Mr. MALYZHENKOV, Alexander
13:45	[119] Particle Confinement by a Radially Polarized Laser Bessel Beam	Prof. SCHACHTER, Levi
14:00	[35] Concave Relativistic Plasma Mirrors for Advanced Accelerator Applications	Prof. DOWNER, Mike
14:15	[235] OPTIMIZATION OF RADIATION GENERATION IN THE INTERACTION OF HIGH INTENSITY SHORT PULSE LASERS WITH SNAIL-SHAPED TARGETS	Prof. D'HUMIÈRES, Emmanuel
14:30	[206] Simulation of High-Power Tunable Laser Pulse Driven Terahertz Generation in Corrugated Plasma Waveguides	Mr. MIAO, Chenlong

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15:30	[43] Nonlinear Raman backscattering in laser-plasma accelerators	Dr. KAGANOVICH, Dmitri
15:45	[134] X-Ray Characterisation by Energy Resolved Powder (XCERP) Diffraction	Mr. CHEUNG, Gavin
16:00	[175] Laser high-harmonic generation in cavitated plasma wakefields	SCHROEDER, Carl
16:15	[229] Strong Terahertz Generation from Laser-Produced 2D-Plasma Sheets	Dr. KUK, Donghoon