

Sunday, 2017-10-08

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Registration Open	
Short course 1 Coherent combination of ultrafast pulses	Limpert, Jens
Coffee	
Short Course 2 Table-top generation of bright x-ray pulses	Murnane, Margaret
Welcome Reception	sponsored by Light Conversion

		Monday, 2017-10-09	
7:00 AM		Registration	
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8:00 AM	Session 1, Novel Sources Presided by Chip Durfee	Nuclear Photonics with Ultrabright Lasers and Gamma Beams	
:15		Barty, Chris	
:30		MeV x-rays from intense laser interaction with solids	
:45		Palaniyappan, Sasikumar	
9:00 AM		Attomicroscopy: towards imaging the electron motion in real-time	
:15	Hassan, Mohammed		
:30	High-harmonic generation driven by single-cycle mid-infrared pulses in solids		
:45	Shirai, Hideto		
10:00 AM		Coffee	
:15	Session 2, Petawatt Laser Technology Presided by Christopher Barty	Kilowatt-Class, Application-Enabling Petawatt Laser Technology	
:30		Haefner, Constantin	
:45		Demonstration of a petawatt-class multi-Hz repetition rate laser	
11:00 AM		Wang, Yong	
:15		BELLA PW: the laser facility with high repetition rate PW pulses for particle acceleration research	
:30	Toth, Csaba		
:45	PENELOPE: amplifier benchmarks and 10-J performance		
12:00 PM	Löser, Markus		
:15	The performance of a 5-Hz joule-level OPCPA front-end for a 10-PW high repetition rate laser system		
:30	Antipenkov, Roman		
:45	Development and applications of a 20-fs 4-PW laser at CoReLS		
	Nam, Chang Hee		
12:00 PM		Lunch	
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:15	Session 3, Free Electron Lasers Presided by Alan Fry	Sub-femtosecond large-scale long-term stable pulsed optical timing distribution	
:30		Kärtner, Franz	
:45		In-situ arrival time measurement during liquid-phase chemical experiments at x-ray free-electron laser sources	
2:00 PM		Diez, Michael	
:15		Ultrafast imaging and x-ray diffraction of materials under dynamic compression	
:30	Sandberg, Richard		
:45	A review of OPCPA technology applied to free-electron lasers (FEL)		
3:00 PM	Prandolini, Mark		
:15	Progress of time-resolved studies using an arrival-timing monitor in a diagnostic branch of SACLA		
:30	Togashi, Tadashi		
:45	Ultrafast laser development driven by accelerator and x-ray FEL research		
	Hartl, Ingmar		
4:00 PM		Poster session 1 sponsored by Stanford PULSE Institute	
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Tuesday, 2017-10-10			
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:15	Session 4, Ultrafast Metrology-1 Presided by Christophe Dorrer	Registration	
:30		SPIDER, 20 years of arachnophilia	Walmsley, Ian
:45		Spatio-temporal metrology at the focus of ultra-intense femtosecond lasers	Borot, Antonin
9:00 AM		Generation and in-situ measurement of the full electric field of near-single-cycle light pulses by CEP dispersion-scan	Miranda, Miguel
:15		Characterization of the ultrashort laser field using tunneling ionization	Park, Seung Beom
:30		CEP stability of high-power few-cycle fiber lasers	Shestev, Evgeny
:45	Intrapulse coherence as a limiting factor in interferometric carrier-envelope phase measurements	Raabe, Nils	
10:00 AM		Coffee	
:15	Session 5, Applications-1 Presided by Rodrigo Lopez-Martens	Applications of ultrafast laser for biomedical imaging	Xu, Chris
:30		Valley-resolved electronic coherences in silicon observed by attosecond transient absorption spectroscopy	Zürch, Michael
:45		Field-resolved spectroscopy of molecular vibrations	Pupeza, Joachim
11:00 AM		Linear and nonlinear Fourier-Transform spectroscopy in the vibrational fingerprint region with a birefringent interferometer	Manzoni, Cristian
:15		Towards the generation of isolated attosecond pulses with femtosecond enhancement cavities	Pupeza, Joachim
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12:00 PM		Lunch	
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:15	Session 6, Novel Technologies-1 Presided by Thomas Spinka	Direct diode pumped Ti:Sapphire (DDPTS): the next ultrafast revolution	Backus, Sterling
:30		Relativistic-intensity near-single-cycle laser pulses at 1 kHz	López-Martens, Rodrigo
2:00 PM		Generation of mid-infrared supercontinuum in cascaded fluoride and chalcogenide glass fibers pumped with Tm-based femtosecond amplifier	Fuji, Takao
:15		Few-cycle near-infrared pulses from a narrowband cw injection-seeded femtosecond optical parametric amplifier	Fan, Jintao
:30		Few-cycle picosecond-pumped OPCPA system for relativistic laser-matter interaction experiments	Leshchenko, Vyacheslav
:45		Progress in the development of high average power, high energy short pulse lasers	Reagan, Brendan
3:00 PM		Coffee	sponsored by KM Labs
:15	Session 7, Thin-Disk Lasers Presided by Csaba Toth	Modelocked thin-disk lasers: towards kilowatt-class ultrafast oscillators	Saraceno, Clara
:30		Kerr lens mode-locked thin-disk lasers delivering 30-fs pulses from Yb:CALGO and 35-fs pulses from Yb:Lu	Paradis, Clément
:45		Multi-mJ CEP-stable few-cycle pulses at 6 kHz from a thin-disk pumped OPCPA used for high-harmonic generation	Prinz, Stephan
5:00 PM		All solid state multipass spectral boardening down to 10-fs Fourier limit	Fritsch, Kilian
:15		Compact megahertz repetition rate coherent XUV light source based on HHG inside a modelocked thin-disk laser	Südmeyer, Thomas
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7:00 PM		Poster session 2	sponsored by Stanford PULSE Institute
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Wednesday, 2017-10-11		
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8:00 AM	Session 8, Ultrafast Sources Presided by Gunter Steinmeyer	Registration
:15		Dual-comb spectroscopy with one unstabilized semiconductor laser Keller, Ursula
:30		Supercontinuum generation with silicon-nitride photonic waveguides and 15-30 GHz ultrafast sources Carlson, David
:45		A robust source of broadband infrared pulses from a few-cycle Er: fiber laser Timmers, Henry
9:00 AM		Watt-level femtosecond 10-GHz SESAM modelocked Yb:CALGO laser operating in the normal dispersion regime Keller, Ursula
:15		Coffee
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10:00 AM	Session 9, Novel Technologies-2 Presided by Sterling Backus	Towards high-energy sub-cycle pulses at PHz frequency Fattahi, Hanieh
:15		Extraction of >90% stored energy from large core fiber in fs FCPA system utilizing coherent pulse stacking amplification Ruppe, John
:30		Towards 10-TW few-cycle IR pulses using frequency domain optical parametric amplification (FOPA) Gruson, Vincent
:45		CEO frequency stabilization of an ultrafast fiber laser by opto-optical modulation (OOM) of a semiconductor absorber Südmeyer, Thomas
11:00 AM		Linearizing nonlinear optics Schmidt, Bruno
:15		Intense single-cycle pulses made easy Kung, Andy
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12:00 PM		Lunch
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3:00 PM		Conference Excursion Sunset Tour of Grand Teton National Park sponsored by Thorlabs
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7:00 PM		Conference Casual Dinner Jackson Center for the Arts
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Thursday, 2017-10-12

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8:00 AM	Session 10, Attosecond Pulses and HHG-1 Presided by Zenghu Chang	Registration
:15		Picometer and attosecond resolution measurements from mid-IR driven electron recollision Biegert, Jens
:30		High photon flux table-top fiber-laser driven high harmonic sources Klas, Robert
:45		Generation of EUV singular beams: vector and vortex beams Hernández-García, Carlos
9:00 AM		Coffee
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10:00 AM	Session 11, Applications-2 Presided by Thomas Feurer	Attosecond photoionization self-probing spectroscopy Krüger, Michael
:15		Efficient 220 eV source based on Yb laser amplifier for solid state physics applications Balciunas, Tadas
:30		High performance nanoscale imaging with table-top high harmonic sources Tadesse, Getnet Kassa
:45		Demonstration of ultrafast laser driven gain-saturated soft x-ray lasers down to 6.9 nm and gain down to 5.9 nm Wang, Shoujun
11:00 AM		Using second harmonic generation as an ultrafast surface sensitive probe of THz-driven structural dynamics Bowlan, Pamela
:15		Intense THz generation and nonlinear THz applications Hauri, Christoph
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12:00 PM		Lunch
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2:00 PM	Session 12, Fiber Technologies Presided by Bruno Schmidt	Ultrashort pulse generation in multimode fibers Wise, Frank
:15		20-W average power sub-3-cycle pulses from a nonlinear pulse compression stage at 2- μ m wavelength Buldt, Joachim
:30		High average power few-cycle laser for ELI-ALPS Hädrich, Steffen
:45		Enhancement of temporal contrast by filtered SPM broadened spectra Buldt, Joachim
		Microjoule femtosecond fiber laser seeded by a gain-switched diode Wise, Frank
3:00 PM		Ultrabroadband fiber lasers and applications in subcycle quantum physics Brida, Daniele
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4:00 PM	Session 13, Ultrafast Metrology-2 Presided by Pamela Bowlan	Coffee
:15		Vectorial reconstruction of NIR-VIS optical field by XUV interferometry Reduzzi, Maurizio
:30		Genetic algorithms for advanced phase retrieval in tomographic pulse characterization techniques Escoto, Esmerando
:45		Time-domain ptychography Feurer, Thomas
5:00 PM		Rapid complete spatiotemporal intensity-and-phase measurement: long complex multi-mode pulses from a multi-mode fiber Trebino, Rick
:15		Single-shot high dynamic range pulse contrast measurements at the Draco laser system in combination with plasma mirrors Bock, Stefan
:30	Measurement and correction of spectral phase in a few-cycle parametric amplifier Miranda, Miguel	
:45	Tracing the phase of focused broadband laser pulses Hoff, Dominik	
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Conference Dinner
 Grand View Lodge, Snow King
 sponsored by
Alpine Research Optics

Friday, 2017-10-13

7:00 AM		
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8:00 AM	Session 14, Attosecond Pulses and HHG-2 Presided by Jens Biegert	MIR driven attosecond sources and other new developments in attosecond research
:15		High harmonics with spatially varying ellipticity
:30		Polarization control of isolated attosecond pulses
:45		Polarization control of attosecond high-harmonic waveforms via helicity-selective circularly polarized high harmonic generation
9:00 AM		Coffee
:15	Session 15, Ultrafast Mid-IR sources Presided by Takao Fuji	>12-W 100-kHz few-cycle mid-infrared source
:30		Compact multi-millijoule multi-kHz OPCPA mid-IR laser optimized for keV high harmonic generation
:45		Parametric generation of ultrafast pulses from mid-infrared to long-wave infrared range
11:00 AM		High-energy 3.3-um femtosecond laser pulse by dual-chirped optical parametric amplification
:15		High-energy infrared femtosecond pulse for attosecond sciences
:30		Awards/Closing
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