

20th Advanced Accelerator Concepts Workshop

Monday 07 November 2022

WG8: Advanced Laser and Beam Technology and Facilities: Session 1 - Salon B (13:30-15:00)

-Conveners: Marcus Babzien; Stephen Milton

time	[id] title	presenter
13:30	Working group kick-off	
13:50	[174] The Argonne Wakefield Accelerator Beam Test Facility for Novel Accelerator Research	POWER, John
14:10	[57] Environmental Impact of Future Colliders	GESSNER, Spencer
14:30	[222] Development of Coherent Spatially and Temporally Combined Fiber Laser LPA Driver Concept – Progress of the kW-Average and TW-Peak Power System Demonstrator	RAINVILLE, Alexander

Tuesday 08 November 2022

WG8: Advanced Laser and Beam Technology and Facilities: Session 3 - Salon B (13:30-15:00)

-Conveners: Marcus Babzien; Stephen Milton

time	[id] title	presenter
13:30	[274] Robust and Efficient Temporal Pulse Combining Enabling Practical Coherent Pulse Stacking Amplification Systems	JING, Yanwen
13:50	[263] Nonlinear Coherent Pulse Stacking enabling energy scalable several optical cycle pulses for the next generation drivers of laser plasma accelerators	COLEMAN, Tayari
14:10	[239] Coherent temporal stacking of tens-of-fs laser pulses towards plasma accelerator applications	COOPER, Lauren
14:30	[243] Ultra-broadband spectral combination of fiber lasers with synthesized pulse shaping to reach short pulse lengths for plasma accelerators	CHEN, Siyun
14:50	Discussion	

Thursday 10 November 2022

WG8: Advanced Laser and Beam Technology and Facilities: Session 7 - Salon B (10:30-12:00)

-Conveners: Marcus Babzien; Stephen Milton

time	[id] title	presenter
10:30	[160] Advanced Lasers for accelerators at Colorado State University: advances in kW average power cryogenicallycooled ultrafast Yb:YAG lasers	ROCCA, Jorge
10:50	[250] Diode-Pumped Tm:YLF Lasers for Advanced Accelerators	KIANI, Leily
11:10	[64] Raman-based wavelength conversion for seeding and optical pumping of CO2 laser amplifiers	LI, William
11:30	[147] Status and prospects of optically pumped high-pressure CO2 amplifiers	Dr TOCHITSKY, Sergei