



# 6th European Advanced Accelerator Concepts workshop

## Monday, 18 September 2023

### WG1: Plasma-based accelerators and ancillary components - Maria Luisa (16:20 - 19:00)

-Conveners: Riccardo Pompili; Min Chen

time	[id] title	presenter
16:20	[390] Introduction to WG1	CHEN, Min Dr POMPILI, Riccardo
16:25	[253] Progress towards resonantly-driven, high-repetition-rate GeV-scale plasma accelerators	HOOKE, Simon
16:45	[178] Evaluation of the transfer matrix of a plasma ramp with squared cosine shape via an approximate solution of Mathieu differential equation	ROMEO, Stefano
17:05	[251] Observation of resonant wakefield excitation by pulse trains guided in long plasma channels	FEDER, Linus
17:25	[255] Energy Depletion and Re-Acceleration of Driver Electrons in a Plasma-Wakefield Accelerator	Mr PEÑA, Felipe
17:45	[309] Experimental Observation of Beam-Plasma Resonance Detuning due to Motion of Ions	TURNER, Marlene
18:05	[206] Enhanced stability of a Free-Electron Laser driven by a plasma beam-driven accelerator and seeded by an external laser beam	OPROMOLLA, Michele
18:25	[426] discussion	

# Tuesday, 19 September 2023

## **WG1: Plasma-based accelerators and ancillary components - Aula Maria Luisa (16:20 - 19:00)**

**-Conveners: Min Chen; Riccardo Pompili**

time	[id] title	presenter
16:20	[391] Introduction to WG1	CHEN, Min Dr POMPILI, Riccardo
16:25	[231] All-optical GeV electron bunch generation in a laser-plasma accelerator via truncated-channel injection	Ms ARCHER, Emily
16:45	[196] Rooting out the gremlins - stable LWFA operation at the PW frontier	Prof. KARSCH, Stefan
17:05	[200] The Interaction of Intense Light with Wavelength-Scale Objects	POMERANTZ, Ishay
17:25	[219] Staging of high-efficiency and high-quality laser-plasma accelerators for collider applications	BENEDETTI, Carlo
17:45	[298] High-quality polarised electron bunches from colliding pulse injection	PODER, Kristjan
18:05	[340] Bright attosecond electron beams and brilliant gamma ray sources with the Resonant Multi-Pulse Ionization Injection	Dr TOMASSINI, Paolo TOMASSINI, Paolo

# Wednesday, 20 September 2023

## **WG1: Plasma-based accelerators and ancillary components - Aula Maria Luisa (16:20 - 19:00)**

-Conveners: Riccardo Pompili; Min Chen

time	[id] title	presenter
16:20	[392] Introduction to WG1	CHEN, Min Dr POMPILI, Riccardo
16:25	[290] Novel positron source for PWFA experiments	GESSNER, Spencer
16:45	[226] Full Energy Beam Exploitation at CLARA: Opportunities for Advanced Accelerator Experiments	PACEY, Thomas
17:05	[377] The effect of exit plasma scale-length and plasma mirrors on electron beams from a laser wakefield accelerator	BACKHOUSE, Michael
17:25	[247] Laboratory Astrophysics and Plasma Wakefield Acceleration: Experimental Study of Magnetic Field Generation by Current Filamentation Instability of a Relativistic Proton Bunch in Plasma	VERRA, Livio
17:45	[273] Beam dynamics studies for a stable, reliable and reproducible high brightness, high gradient plasma wakefield accelerator	GIRIBONO, Anna
18:05	[173] Real-time electron microscopy of the laser-plasma wakefield dynamics	MALKA, Victor
18:25	[428] discussion	

# Thursday, 21 September 2023

## **WG1: Plasma-based accelerators and ancillary components - Aula Maria Luisa (16:20 - 19:00)**

-Conveners: Min Chen; Riccardo Pompili

time	[id] title	presenter
16:20	[393] Introduction to WG1	CHEN, Min Dr POMPILI, Riccardo
16:25	[296] Beam-driven plasma wakefield acceleration at Megahertz repetition rates	Dr LOISCH, Gregor
16:45	[201] Acceleration and focusing capabilities integrated in a new plasma-based device	Dr POMPILI, Riccardo
17:05	[307] Gas-dynamic density downramp injection in a beam-driven plasma wakefield accelerator	SCHOEBEL, Susanne
17:25	[313] High average gradient in a laser-gated multistage plasma wakefield accelerator	KNETSCH, Alexander
17:45	[336] Electron beam self-focusing and X-ray radiation in a self-ionized plasma wakefield accelerator	Ms ZAKHAROVA, Viktoriia
18:05	[337] Longitudinally Resolved Measurements of Energy-Transfer Efficiency in a Plasma-Wakefield Accelerator	BOULTON, Lewis
18:25	[430] discussion	