

Session Program

13-19 Sept 2015



2nd European Advanced Accelerator Concepts Workshop

WG5 - High-gradient plasma structures/ Advanced beam diagnostics

La Biodola, Isola d'Elba

[Hotel Hermitage](http://www.elba4star.it/en/)

Monday 14 September

16:00

WG5 - High-gradient plasma structures/Advanced beam diagnostics

Session | **Location:** Hotel Biodola, SBIO Sala Biodola | **Conveners:** Enrica Chiadroni, Dr Brigitte CROS

16:00–16:20

Wakefield electron acceleration in guiding structures under real 3-D nonsymmetrical conditions

Speaker

Prof. Nikolay Andreev

16:20–16:40

Electron acceleration in deep plasma channels in the Bubble regime

Speaker

Prof. Alexander Pukhov

16:40–17:00

Propagation of high-intensity femtosecond laser pulses through ablating metal waveguides

Speaker

Prof. Konstantin Lotov

17:00–17:20

Continuous-Flow Plasma Target for LWFA: Concept Towards High Repetition Rates

Speaker

Mr Niels Delbos

17:20–17:30

Discussion

17:30

18:00

WG5 - High-gradient plasma structures/Advanced beam diagnostics

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18:00–18:20

Progress of self-modulation experiments with electron and positron beams in plasma wakefield experiments at FACET

Speaker

Dr Erik Adli

18:20–18:40

Characterisation of Bright X-ray Beams by Powder Diffraction

Speaker

Mr Gavin Cheung

18:40–19:00

Experimental considerations on emittance growth in the Drive Beam recombination at CTF3.

Speaker

Davide Gamba

19:00–19:20

Inverse Compton Scattering as a diagnostic of electron beams

19:30

Speaker

Dr Matthew Streeter

19:20–19:30

Discussion

Tuesday 15 September

15:00

WG5 - High-gradient plasma structures/Advanced beam diagnostics

Session | **Location:** Hotel Biodola, SBIO Sala Biodola | **Conveners:** Enrica Chiadroni, Dr Brigitte CROS

15:00–15:20 **Laser-ionized plasma source for plasma wakefield accelerators**

Speaker

Dr Erdem Oz

15:20–15:40

Influence of realistic plasma density profile on ionization-induced electron injection driven by laser wakefield

Speaker

Mr Thomas Audet

15:40–16:00

Spectroscopic determination of electron density and species distribution

Speaker

Dr Lucas Schaper

16:00–16:20

Opto-acoustic measurements of the plasma density within a gas-filled capillary plasma source

Speaker

Dr Angelo Biagioni

16:30–16:50

Bunch Profile Reconstruction and Evolution of Laser-Wakefield accelerated Electron Bunches by Single-Shot Measurement of Coherent Transition Radiation

Speaker

Mr Matthias Heigoldt

16:50–17:10

Broadband (UV - mid-IR) spectrometer for single-shot femtosecond electron bunch measurement

Speaker

Mr Omid Zarini

17:10–17:30

Longitudinal phase space diagnostic for ultrashort bunches

Speaker

Irene Dornmair

17:30

18:00

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18:00–18:20

Synchronization of ebeam and laser beam in 'Trojan horse' plasma wakefield experiment

18:30

Speaker
Mr Yunfeng Xi