

## Schedule

- 8:50 - 9:00 Introduction
- 9:00 - 10:30 Session 1
  - (20 min) Jean-Luc Dubois (CELIA, Bordeaux): On the road to PETAL: the challenge of measuring the strong laser-induced EMP.
  - (20 min) David Carroll (RAL, Didcot): Vulcan Petawatt EMP studies.
  - (20 min) Sam Giltrap (IC, London): EMP from optically levitated targets.
  - (20 min) Vladimir Tikhonchuk (CELIA, Bordeaux): Quasi-stationary magnetic fields generation with capacitor-coil targets.
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- 10:30 – 11:00 Coffee break
- 11:00 – 12:30 Session 2
  - (20 min) Markus Roth (TU, Darmstadt): Charge separation and self-generated currents in short pulse laser experiments.
  - (20 min) David Neely (RAL, Didcot): Escaping electrons and EMP scaling at VULCAN in the 1-20 ps experimental region.
  - (20 min) Alexandre Poyé (ENS, Lyon): Target charging modeling - evolution of the charging current with thin targets.
  - (20 min) Alexander Andreev (MBI, Berlin): Generation of extreme currents and quasi-static fields at an interaction of relativistic intense laser pulses with nanostructure targets.
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- 12:30 – 14:00 Lunch and posters
- 14:00 – 15:30 Session 3
  - (15 min) Josef Krása (IP, CAS, Prague): Characteristics of magnetic field induced by target current driven by interaction of the PALS laser with solid targets.
  - (15 min) Massimo De Marco (ELI-B, Dolní Břežany): Electromagnetic pulse (EMP) radiation by interaction of laser pulse with  $^2\text{H}$  ice ribbon.
  - (15 min) Fabrizio Consoli (ENEA, Frascati): Two-axis electro-optic measurements of intense electromagnetic pulses in the radiofrequency-microwave regime generated by nanosecond laser-plasma interaction.
  - (15 min) Timothy Robinson (IC, London): Electro-optical measurement of EMP from petawatt-regime laser-matter interactions.
  - (15 min) Piotr Rączka (IPPLM, Warsaw): Characterization of the EMP generated with a high-intensity fs laser interacting with a thin foil target.

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- 15:30 – 16:15 Coffee break and posters
- 16:15-17:25 Session 4
  - (15 min) Bernhard Zielbauer (PHELIX, GSI, Darmstadt): EMP experience and mitigation at PHELIX.
  - (15 min) Łukasz Węgrzyński (IOE, MUT, Warsaw): Strong EMP effects observed in experiments on interaction of ultra-short laser pulses with gas puff targets.
  - (15 min) José-Manuel Álvarez (CLPU, Salamanca): Monitoring the EMP generated with VEGA at the Spanish Pulsed Lasers Center.
  - (15 min) Marius Gugiu (ELI-NP, Magurele): EMP-related issues at ELI-NP.
- 17:25 – 18:00 Open discussion
  - Vladimir Tikhonchuk: Summary and outlook
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- Posters
  - Fernando Arteché (ITAINNOVA, Salamanca): EMC strategies to control the noise issues in High Energy Physics Experiments (poster).
  - Tomasz Chodukowski (IPPLM, Warsaw): Polaro-interferometric measurements of spontaneous magnetic fields in laser-produced plasmas (poster).
  - Riccardo De Angelis (ENEA, Frascati): Measurements of EMP fields generated by interaction of Vulcan petawatt laser with solid targets (poster).
  - Deepak Kumar (ELI-B, Dolní Břežany): The P3 installation of ELI-Beamlines as a potential EMP research platform (poster).
  - Kwinten Nelissen (ELI-ALPS, Szeged): Preliminary EMP estimates and facility grounding @ ELI-ALPS (poster).
  - Sophia Malko (CLPU, Salamanca): Relativistic electron beam guiding by using two consecutive laser pulses (poster).
  - Agnieszka Zaráś-Szydłowska (IPPLM, Warsaw): The High Power Laser Laboratory at IPPLM (poster).