



Contribution ID: 41

Type: **Invited talk**

Laser-plasma acceleration at ELI-Beamlines

Wednesday, 21 September 2022 16:40 (20 minutes)

ELI-Beamlines, located near Prague in Czech Republic, is one the pillar of the pan-European Extreme Light Infrastructure (ELI) project. The specific nature of the ELI-Beamlines facility is its multi-discipline features, opening wide opportunities for the worldwide user community to cultivate secondary radiation and particle sources for revolutionary applications. The ELI-Beamlines development, has two major aspects: enhancing capabilities and versatility of laser systems and subsequently using improved lasers for novel applications, including compact free-electron lasers and high-energy physics. In the frame of this report, we overview the current status of the lasers development and main experimental achievements in the laser-plasma acceleration at ELI-Beamlines.

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Session Classification: Special Topic