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## Progress towards high-quality, high-repetition-rate plasma acceleration at FLASHForward

*Monday, 20 May 2024 16:00 (2 hours)*

Plasma-wakefield acceleration represents an exciting route towards reducing the footprint of future high-energy electron accelerators by accelerating bunches in fields exceeding 1 GV/m. One such technique employs a double-bunch structure where the trailing bunch is accelerated in the field of a high-amplitude plasma-density wake driven by the leading bunch. A future particle collider or photon science facility incorporating plasma accelerators will be required to accelerate up to millions of bunches per second with high energy efficiency while preserving the brightness of the accelerating bunch. This contribution presents the latest progress towards these goals at FLASHForward (DESY).

### Footnotes

### Funding Agency

### Paper preparation format

LaTeX

### Region represented

Europe

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