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Corrugated Structure System for Fresh-Slice Applications at the European XFEL

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Fresh-slice lasing using wakefield induced time-dependent orbit oscillation is capable of producing high intensity two-color XFEL pulses and high power short pulses at femtosecond level. At the European XFEL, a corrugated structure system for fresh-slice applications for both the hard x-ray beamline SASE1 and the soft x-ray SASE3 beamline is being developed and implemented. In this contribution, we present the novel design of the corrugated structure and the application to advanced lasing schemes.

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