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Mode-locked soft x-ray FEL generation based on HHG seed

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High Harmonic Generation (HHG) has been a brilliant and successful technique for the generation of natural mode-locked attosecond laser pulses in the VUV regime. It's promising to employ the HHG laser as an external seed in a harmonic-generation FEL facility for the generation of high power short wavelength mode-locked FEL pulses. In this paper we propose a method to try to make this happen. And we will address some critical problems. The possible performance will also be given through numerical simulations.

Footnotes

Funding Agency

Paper preparation format

Region represented

Asia

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