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## Strong 50-attosecond Water Window Pulses by a Midinfrared Waveform Synthesizer

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Using 100-mJ-class midinfrared laser pulses, that are generated by a dual-chirped optical parametric amplification (DC-OPA) system, for a multi-channel waveform synthesizer, strong 'water window' soft x-ray harmonics with 50-attosecond duration can be generated.

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