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Multi-GHz repetition rate, femtosecond pulse generation in burst mode based on a phase-only modulated electro-optic frequency comb

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We present a 17.5 GHz repetition rate, femtosecond fiber laser operating in the burst mode, achieved by nonlinearly shaping and amplifying a phase-only modulated electro-optic comb at 1.03 μm. The system delivers 1.2 W output pulses compressible down to <100 fs level.

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