Title	Controlled waveforms on the single-cycle scale from a femtosecond oscillator
Authors	Stefan Rausch,[1,2] Thomas Binhammer,[1,3] Anne Harth,[1,2] Jungwon Kim,[4] Richard Ell,[4] Franz X. Kärtner,[4] and Uwe Morgner[1,2,5]
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Abstract	We present an octave-spanning Ti:sapphire oscillator supporting Fourier-limited pulses as short as 3.7 fs. This laser system can be directly CEO-phase stabilized delivering an average output power of about 90mW with a pulse duration of 4.4 fs. The phase-stabilization is realized without additional spectral broadening using an f-2f interferometer approach allowing for full control of the electric pulse field on a sub-femtosecond time-scale.
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Institute	[1]Institute of Quantum Optics, Leibniz University Hannover, Welfengarten 1, D-30167 Hannover, Germany, Tel: [2]Centre for Quantum Engineering and Space-Time Research (QUEST), Welfengarten 1, D-30167 Hannover, [3]VENTEON Femtosecond Laser Technologies, Maarweg 30, D-53619 Rheinbreitbach, Germany [4]Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA, USA [5]Laser Zentrum Hannover e.V., Hollerithallee 8, D-30419 Hannover, Germany