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Spatio-temporal Characterization of Attosecond Pulses from Plasma Mirrors by Ultrafast Photonic Streaking

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The non-collinear superposition of a laser beam with a weak second harmonic beam produces laser wavefronts that oscillate angularly in time, at the laser frequency. We have used the resulting ultrafast (attosecond) photonic streaking to characterize, both in space and time, the attosecond pulses produced from plasma mirrors at intensities up to 10^{19} W/cm^2 .

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