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An ultrashort pulse laser is a laser that emits ultrashort pulses of light, generally of the order of femtoseconds to ten picoseconds. They are also known as ultrafast lasers owing to the speed at which pulses "turn on" and "off" (not to be confused with the speed at which light propagates, which is determined by the properties of the medium (and has an upper limit), particularly its index of

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refraction, and can vary as a function of field intensity (i.e. self-phase modulation) and ...

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An ultrashort pulse is created by a special sort of laser emitter- a mode-locked oscillator. Mode locking involves allowing a laser to pass between mirrors for a very short amount of time, which makes the already-synchronized waves of light even more synced up.

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