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research at the forefront of applied physics and attracts more and more people to enter this field. This paper attempts to clarify some of the fundamental physics behind filamentation.

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When a powerful femtosecond laser pulse propagates in a transparent optical medium, be it a gas or a condensed medium, the pulse will self-focus into a series of self-foci, giving rise to the perception of a filament. This universal nonlinear propagation phenomenon is currently an interesting research topic at the forefront of applied physics and attracts more and more people into this field.

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