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Femtosecond pulses propagation through pure water LUCAS NAVEIRA, ALEXEI SOKOLOV, JOONG-HYEOK BYEON, GEORGE KAT-TAWAR, Texas A&M University, AMO PHYSICS TEAM — Recently, considerable attention has been dedicated to the field of optical precursors, which can possibly be applied to long-distance underwater communications. Input beam intensities have been carefully adjusted to keep experiments in the linear regime, and some experiments have shown violation of the Beer-Lambert law. We are presently carrying out experiments using femtosecond laser pulses propagating through pure water strictly in the linear regime to study this interesting and important behavior. We are also employing several new and innovative schemes to more clearly define the phenomena.

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