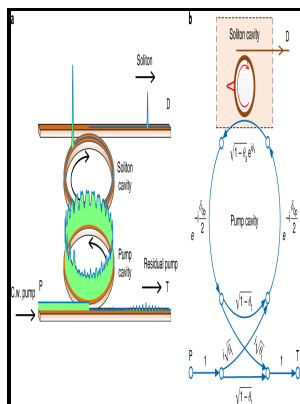


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Translations are not retained in our system. We investigate the generation of this novel type of solitons and soliton pairs with respect to the number and phase relation of the superimposed Airy beams and support all experiments with comprehensive numerical simulations. Impedance-matched modulational instability laser for background-free pulse train generation in the THz range.

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Mikhailov, Maxwell-Bloch equation and the inverse scattering method, Theor.

Rotating Propeller Soliton

We have shown that multipolar rotational spectroscopy of molecules in proximity of localized graphene structures can be accessed through the extraordinary enhancement of their multipolar transitions provided by terahertz plasmons. In this regime, diffraction ceases, and waveforms will naturally propagate without distortion, forming solitons of any size and intensity, even arbitrarily low. Optical Solitons in Fibers 3rd edn Springer, 2002.

Optics and Nonlinear Optics of Liquid Crystals

This work was supported in part by the National Natural Science Foundation of China grant numbers 61690191, 61690192 and 61420106003 and the Beijing Municipal Natural Science Foundation grant number 4172029. For instance Simultons applies to two frequency components solitons and Nematocons are formed in nematic liquid crystals. Summary My research background and expertise span from nonlinear optics to nanophotonics and plasmonics encompassing two-dimensional materials, metamaterials and semiconductor physics.

Optics and Nonlinear Optics of Liquid Crystals

Moreover, the amplitude of E_{py} has to be large enough to induce efficient trapping for a moderate temperature change compatible with PR effect. Rizza, E Del Re, and E. Dissipative Kerr solitons in optical microresonators.

Soliton formation by interacting Airy beams

Using macroscale optical fibre-ring cavities, which share the same physical model as miniature microresonators, we demonstrate nearly 100% pump recycling and the ability to break the efficiency limit of a single cavity. For instance, once a crystal temperature is set, the induced pyroelectric field has to remain long enough compare to PR response time. Nonlinear Fiber Optics 4th edn Academic Press, 2006.

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