

Physics Of Solitons

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Physics Of Solitons

Topological solitons occur in many nonlinear classical field theories ... prominent in the field and have made many seminal contributions to it.' Contemporary Physics 'The book is self-contained and ...

Topological Solitons

Solitons emerge in various non-linear systems as stable localized configurations, behaving in many ways like particles, from non-linear optics and condensed matter to nuclear physics, cosmology and ...

Topological and Non-Topological Solitons in Scalar Field Theories

Solitons are meanwhile known not only in hydrodynamics, but in solid state physics, particle physics, and especially in optics. Optical solitons allow a number of attractive applications in ...

Nonlinear Waves and Solitons | Lecture SS 2021

Optical solitons are nonlinear optical wave-packets that can maintain their profile during the propagation even in the presence of moderate perturbations, offering useful applications in optical ...

PCF-based 'parallel reactors' unveils collective matter-light analogies of soliton molecules

These are big challenges in different areas of physics. In our work, we successfully generated dissipative solitons in nematics with negative and positive dielectric anisotropies and manipulated their ...

Yuan Shen, PhD Physics

1. John Archibald Wheeler: A Few Highlights of His Contributions to Physics 1. John Archibald Wheeler: A Few Highlights of His Contributions to Physics (pp. 3-13) A description of the nucleus which ...

Between Quantum and Cosmos: Studies and Essays in Honor of John Archibald Wheeler

The theoretical advances from this project will lead to a clearer and more effective understanding of highly nonlinear phenomena in physics, such as solitons, gravitational singularities in general ...

CAREER: Dynamics of Nonlinear Dispersive Partial Differential Equations

Richard Clayton has a first degree in Applied Physics and Electronics from the University of Durham, and a PhD in Medical Physics from the University in Newcastle upon Tyne. After completing his PhD, ...

Professor Richard Clayton

Hawrylak, P.B. Corkum and M.Y. Ivanov, [High harmonic generation and level bifurcation in strongly driven quantum wells,] Laser Physics 13 ... [Watching dark solitons decay into vortex rings in a Bose ...

Paul Haljan Publications

The chirped pulses remain stable even with more than 90% energy loss. The 2018 Nobel Prize in

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Physics was shared by researchers who pioneered a technique to create ultrashort, yet extremely high ...

Novel chirped pulses defy 'conventional wisdom'

and solitons. One or more advanced topics in solid-state electronics. Content may vary from year to year. Recent topics have included electronic properties of doped semiconductors, physics and ...

Materials Science and Engineering

1 School of Physics and Astronomy, Tel Aviv University, Israel. 2 Department of Physical Chemistry, School of Chemistry, The Raymond and Beverly Sackler Faculty of Exact Sciences and The Sackler ...

Interfacial ferroelectricity by van der Waals sliding

Physics Jules Jaffe Characterizing Bacterial Motility Using ... Finding Stokes' Drift of Deep Water Solitons Was able to devise my own experiment (under significant guidance) and conduct tests in the ...

MPL Summer Intern Research

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Breakthrough Prizes

The 2018 Nobel Prize in Physics was shared by researchers who pioneered a technique to create ultrashort, yet extremely high-energy laser pulses at the University of Rochester. Now researchers at ...

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