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# Optical Solitons Theoretical And Experimental Challenges

**optical solitons - sccs** - optical solitons an optical soliton is a pulse that travels without distortion due to dispersion or other effects. they are a nonlinear phenomenon caused by self-phase modulation (spm), which means that the electric field of the wave changes the index of refraction seen by the wave (kerr effect). spm causes a red shift at the leading edge of the pulse. **optical solitons in the few-cycle regime: recent ...** - 4 optical solitons in the few-cycle regime: recent theoretical results 1257 moreover, by using the multiscale analysis, a generic kadomtsev-petviashvili evolution equation governing the propagation of femtosecond spatiotemporal optical solitons in quadratic nonlinear media beyond the svea was put forward [51]. **optical solitons and quasisolitons - university of arizona** - optical solitons and quasisolitons v. e. zakharov\*) and e. a. kuznetsov†) i. d. landau institute of theoretical physics, russian academy of sciences, 117334 moscow, russia ~submitted 13 november 1997! zh. e'ksp. teor. fiz. 113, 1892-1914 ~may 1998! optical solitons and quasisolitons are investigated in reference to cherenkov radiation. it is **localized optical structures: an overview of recent ...** - localized optical structures, see several comprehensive reviews in these research areas [21-28] and other relevant works [29-43]. it may be anticipated that the optical solitons can play a key role in all-optical processing of information and in future ultra high speed optical networks. it is worth noting that **mathematical frontiers in optical solitons - pnas** - oponents came together in 1973 with the theoretical prediction of temporal optical solitons (7), and their experimental realization in 1980 (8). it is easiest to describe an optical soliton in the spatial domain, where it is simply a self-guided wave. consider an optical beam as narrow as 10 optical wavelengths ( 5 microns for visible light). **optical solitons in periodic structures - researchgate** - periodicity or discreteness leads to new families of optical solitons that have no counterpart whatsoever in continuous systems. in the first part of this dissertation, a theoretical investigation ... **an all-optical soliton fft computational arrangement in ...** - provide simulations of solitons propagation down the optical fibre in the 3nls equation domain and in general have been extensively used in theoretical research on colliding solitons. these methods give the possibility not only of theoretical analysis and simulation of collisions between solitons but also of monitoring the stability and the ... **focus issue: optical solitons—perspectives and ...** - the history of solitons and the field of integrable systems, a brief overview of the development of nonlinear optics and optical solitons is provided. next, the various contributions to this focus issue are presented, and a few separate remarks are devoted to optical communications, where solitons **review article spatiotemporal optical solitons** - spatiotemporal optical solitons boris a malomed<sup>1</sup>,dumitrumihalache<sup>2</sup>,frankwise<sup>3</sup> and lluis torner<sup>4</sup> 1 department of interdisciplinary studies, school of electrical engineering, faculty of engineering, tel aviv university, tel aviv 69978, israel 2 department of theoretical physics, institute of atomic physics, po box mg-6, bucharest, romania **temporal evolution of the bright soliton in an optical fiber** - pacs. 42.81.dp - propagation, scattering, and losses; solitons. abstract. - the bright soliton in an optical fiber is generally studied by treating the spatial variable as the evolution variable, where the waveform is taken into consideration. to be consistent with the well-established picture of the dynamics of solitons in other systems, in **white-light solitons - mit** - optical spatial solitons made from incoherent white light were experimentally observed in 1997 by mitchell and segev [nature (london) 387, 880 (1997)]. we present what is believed to be the first theory describing these solitons and find the characteristic features of their spatiotemporal coherence properties and their **quasi-particle theory of optical soliton interaction** - the theoretical possibility of existence of optical solitons in a dielectric dispersive fiber was first predicted by hasegawa and kodama [12]. a couple of years later mollenauer et al. successfully performed the famous experiment to verify this prediction. important characteristic properties of these solitons are that they possess a **ultrashort spatiotemporal optical solitons in waveguide ...** - optical pulses in nonresonant media [40], and the maxwell-drude-bloch model of few-cycle optical solitons [41]. the theoretical and experimental researches in the broad area of nonlinear optics of ultrashort light pulses including few-cycle optical solitons have been reviewed in a series of papers [42-45]. **dynamics of spatial solitons in parity time symmetric ...** - dynamics of spatial solitons in parity-time-symmetric optical lattices: a selection of recent theoretical results ying-ji he<sup>1,\*</sup>, xing zhu<sup>2</sup>, dumitru mihalache<sup>3</sup>,# 1guangdong polytechnic normal university, school of electronics and information, 510665 guangzhou, china

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