Solitons Liquid Crystals Partially Ordered

spatial solitons in nematic liquid crystals - quantum ... - spatial solitons in nematic liquid crystals ... and observation of partially incoherent spatial solitons. finally, we conclude in section vii by indicating current and future re- **incoherent spatial optical solitons in photorefractive ...** - incoherent spatial optical solitons in photorefractive crystals s. konar1 ... demonstration of the existence of incoherent or partially coherent spatial optical solitons [1-3]. unlike coherent optical solitons, phase of the partially coherent light beams fluctuates ... nematic liquid crystals [6,7]. liquid crystals possess strong instantaneous ... **vector vortex solitons in nematic liquid crystals** - vector vortex solitons in nematic liquid crystals zhiyong xu,1,* noel f. smyth,2 antonmaria a. minzoni,3 and yuri s. kivshar1 1nonlinear physics center, research school of physics and engineering, australian national university, canberra act 0200, australia 2school of mathematics and maxwell institute for mathematical sciences, university of edinburgh, edinburgh, **partially ordered systems - home - springer** - partially ordered systems editorial board: 1. charvolin' l. lam solitons in liquid crystals lui lam and jacques prost, editors bond-orientational order in condensed matter systems katherine j. strandburg, editor diffraction optics of complex-structured media v.a. belyakov nuclear magnetic resonance of liquid crystals ronald y. dong **electrooptic effects in liquid crystal materials - springer** - electrooptic effects in liquid crystal materials l.m. blinov and v.g. chigrinov liquid crystalline and mesomorphic polymers valery p. shibaev and lui lam, editors micelles, membranes, microemulsions, and monolayers william m. gelbart, avinoam ben-shaul, and didier roux pattern formation in liquid crystals a. buka and l. kramer, editors **partially ordered systems - springer** - partially ordered systems editorial board: l. lam Ã¢Â€Â¢ d. langevin solitons in liquid crystals lui lam and jacques prost, editors bond-orientational order in condensed matter systems katherine j. strandburg, editor diffraction optics of complex-structured periodic media v.a. belyakov fluctuational effects in the dynamics of liquid crystals **chirality in liquid crystals - personalnt** - chiral liquid crystals belong to a wide class of soft condensed phases. the director field in the ground state of chiral phases is nonuniform because molecular interactions lack inversion symmetry. among the broad variety of spatially distorted structures the simplest one is the cholesteric phase in **arxiv:1702.04494v1 [nlin] 15 feb 2017** - two-dimensional bright solitons in nematic liquid crystals [6] and in partially ionized plasmas [4]. in the limit ÃŽÂ±2 Ã¢Â‰Â« 1, we can neglect the second term in the equation for the Ã¯Â¬Â•eld ÃŽÂ¸of eq. (1) and reduce this system to the standard local nonlinear schrÃ¸Â¨odinger (nls) equation with cubic nonlinearity. the opposite case, i.e. ÃŽÂ±2 Ã¢Â‰Âª 1, **(1 1)-dimensional modulation instability of spatially ...** - 1996 solitons made of partially spatially incoherent ... supports incoherent solitons are nematic liquid crystals.52 ... earity in which a polarized optical wave exerts a torque on the aligned molecular dipoles of a liquid crystal and orients them toward a preferential axis.53 for incoherent solitons (and incoherent mi) to occur, ... **partially coherent waves in nonlinear periodic lattices** - solitons) in these systems. while the propagation of partially coherent waves in nonlinear periodic systems is a universal problem, we analyze it in the context of nonlinear photonic lattices, where recent experiments have proven their existence. 1. introduction nonlinear periodic systems are frequently encountered in nature. examples **discrete propagation and spatial solitons in nematic ...** - discrete propagation and spatial solitons in nematic liquid crystals andrea fratalocchi and gaetano assanto nonlinear optics andoptoelectronics laboratory, italian institute for thephysics of matter, universitÃƒÂ Ã¢Â€Âœroma tre,Ã¢Â€Â• via della vasca navale 84, 00146 rome, italy kasia a. brzdÃ‹Â›akiewicz and mirek a. karpierz **nematic liquid crystal waveguide arrays** - tion of multifunctional routers and all-optical signal processors with nematic liquid crystals. keywords: nonlinear optics, solitons, self-action effects, optical nonlinearity in liquid crystals, discrete diffraction. 1. introduction linear and nonlinear effects in discrete systems such as photonic structures with a periodic modulation of the re- **partially ordered systems - springer** - partially ordered systems editorial board:lmÃ¢Â€Â¢e. guyon Ã¢Â€Â¢d. langevin Ã¢Â€Â¢h.e. stanley solitons in liquid crystals lui lam and jacques prost, editors bond-orientational order in condensed matter systems **vector solitons in parity-time symmetric**

lattices with ... - spatial solitons in a saturable nonlinear medium. nonlocal incoherent spatial solitons had also been extensively studied [9Ã¢Â€Â“12]. for example, the assanto group investigated the properties of spatial partially incoherent solitons in nematic liquid-crystals [10], while the segev group demonstrated **multipole vector solitons in nonlocal nonlinear media** - letter we address multipole solitons in a model with a nonlocal response of the helmholtz type, encoun-tered, in particular, in nematic liquid crystals and plasmas, and show that the shape of nonlocal re-sponse is crucial for the stability of 2d bound states. thus all scalar bound states are found to be unstable,

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