
Light Propagation Ultracold Atomic Gases Francesco

light propagation in ultracold atomic gases pdf - light propagation in ultracold atomic gases | get read & download ebook light propagation in ultracold atomic gases as pdf for free at the biggest ebook library in the world. **weak localization of light in ultracold atomic gases** - measured the impact of wave interference on light propagation in ultracold atomic gases. we conclude by laying out some of the areas that promise significant advances in the next few years. **disorderly conduct in ultracold atomic gases** - quantum optics in ultracold and high-density, but non quantum degenerate, atomic gases is a relatively little explored but promising area of research. studies of light trapping in coherently prepared samples, en- **alignment dynamics of slow light diffusion in ultracold ...** - a combined experimental and theoretical investigation of time- and alignment-dependent propagation of light in an ultracold atomic gas of atomic 85 rb is reported. coherences among the scattering amplitudes for **light propagation in atomic mott insulators - arxiv** - light propagation in atomic mott insulators ... i-38050 povo, italy *bariani@science.unitn we study radiation-matter interaction in a system of ultracold atoms trapped in an optical lattice in a mott insulator phase. we develop a fully general quantum model, and we perform calculations for a one-dimensional geometry at normal incidence. both two- and three-level Λ atomic configurations ... **polarization rotation of slow light with orbital angular ...** - polarization rotation of slow light with orbital angular momentum in ultracold atomic gases ... we consider the propagation of slow light with an orbital angular momentum oam in a moving atomic medium. we have derived a general equation of motion and applied it in analyzing propagation of slow light with an oam in a rotating medium, such as a vortex lattice. we have shown that the oam of slow ... **slow light in ultra-cold atomic gases - itpa** - atomic gases including both the atomic bose-einstein condensates and degenerate fermi gases. we present a microscopic analysis of the interplay between light and matter and show how slow light can provide an effective **light propagation beyond the mean-field theory of standard ...** - light propagation beyond the mean-field theory of standard optics juha javanainen1,* and janne ruostekoski2 1department of physics, university of connecticut, storrs, connecticut 06269-3046, usa **storage of light in atomic vapor - harvard university** - volume 86, number 5 physical review letters 29january 2001 storage of light in atomic vapor d.f. phillips, a. fleischhauer, a. mair, and r.l. walsworth **robust digital holography for ultracold atom trapping** - in the eld of ultracold atomic gases a variety of optical potential shapes, of ever increasing complexity, are used for fundamental studies of many-body physics [3] in different optical crystal lattices [4, 5], reduced dimensionality [6, 7], and non-trivial trapping topologies [8, 9]. **phase-dependent light propagation in atomic vapors - core** - phase-dependent light propagation in atomic vapors sarah kajari-schröder,1 giovanna morigi,2 sonja franke-arnold,3,4 and gian-luca oppo4 1institut für quantenphysik, university of ulm, d-89069 ulm, germany **quantum sensitivity limit of a sagnac hybrid ...** - quantum sensitivity limit of a sagnac hybrid interferometer based on slow-light propagation in ultracold gases f. e. zimmer and m. fleischhauer **ruseckas, julius and juzelinas, gediminas and ohberg ...** - arxiv:0706.0477v1 [cond-mat.other] 4 jun 2007 polarisation rotation of slow light with orbital angular momentum in ultracold atomic gases julius ruseckas,1 gediminas juzelinas,1 patrik ohberg, 2 and stephen m. barnett3 **controlled manipulation of light by cooperative response ...** - atomic dynamics evolve on time scales much longer than the light propagation time across the optical lattice [17], the induced polarization produces the scattered electric field

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