
Coherent Atomic Matter Waves 27 July 27 August 1999

coherent perfect absorption of nonlinear matter waves - system. above the breaking value (fig. 2b), a strong decay sets in and the atomic density is not homogeneous in space any more. an important feature of cpa is the balanced superfluid currents toward the dis- **coherent transport of matter waves** - arxiv - arxiv:quant-ph/0007083v1 21 jul 2000 applied physics b manuscript no. (will be inserted by the editor) coherent transport of matter waves carsten henkel¹, sierk potting^{2,3,4} **coherent frequency shift of atomic matter waves** - volume 77, number 26 physical review letters 23december 1996 coherent frequency shift of atomic matter waves stefan bernet, markus k. oberthaler, roland abfalterer, jörg schmiedmayer, and anton ... **physicists realize an atom laser, a source of coherent ...** - coherent matter waves whereas the optical laser emits coherent electromagnetic waves. coherence means, for instance, that atom laser beams can interfere with each other. (see de broglie wavelength, laser) laser light is created by stimulated emission of photons, a light amplification process. similarly, an atom laser beam is created by stimulated amplification of matter waves. the conservation ... **coherent transport of matter waves** - springer - appl. phys. b 72, 73-80 (2001) / digital object identifier (doi) 10.1007/s003400000475 appliedphysicsb lasers andoptics coherent transport of matter waves **atom-laser coherence length and atomic standing waves** - condensed atomic samples @1# and coherent atomic beams @2# has attracted the attention of both theorists @3# and ex- perimentalists @4# on the characterization of the coherence **insight review articles nonlinear and quantum atom optics** - atomic-gas bose-einstein condensates (becs)^{1,2} brought a similar change in the optics of matter waves (atom optics). one of the first, qualitatively new experiments to follow the appearance of the laser was second harmonic genera-tion, or frequency doubling³. an intense pulse of red laser light irradiated a transparent crystal and the emerging pulse included a small amount of blue light ... **atom-atom interactions in ultracold quantum gases** - y. castin, in 'coherent atomic matter waves', lecture notes of les houches summer school, edited by r. kaiser, c. westbrook, and f. david, edp sciences and springer-verlag (2001) **coherence of atomic matter-wave fields** - coherence of atomic matter-wave fields e. v. goldstein, o. zobay, and p. meystre optical sciences center, university of arizona, tucson, arizona 85721 ~received 7 april 1998! in analogy to glauber's analysis of optical coherence, we adopt an operational approach to introduce different classes of atomic coherence associated with different types of measurements. for the sake of con-creteness ... **coherent manipulation of atoms with standing light waves** - coherent manipulation of atomic momentum states is the primary goal of atom optics, and the standing light wave with its associated stimulated light forces is the primary method of achieving this goal. **coherent patterning of matter waves with subwavelength ...** - the highly controlled manipulation of atomic matter waves has proven to be an exciting field of research in recent years. specially, research in bose-einstein condensation, fermi quantum degeneracy, and quantum information pro- cessing with ultracold atoms has achieved tremendous ad-vances 1 . future progress in this field will strongly profit from optical addressability, localization, and ... **scattering of matter waves in spatially inhomogeneous ...** - wave optics [7] indicate that coherent matter waves may in principle be controlled similarly to their optical siblings in optical fibers, waveguides, photonic crystals, and so on [8]. **correlated input-port, matter-wave interferometer: quantum ...** - port technique using coherent bosonic states—rather than fock states—gives a sensitivity of, at best, only $\Delta\omega \propto 1/\sqrt{n}$, where \bar{n} is the mean number of particles. **coherent molecular optics using ultracold sodium dimers** - the coherent manipulation of atomic matter waves via stimulated light scattering has been crucial in the develop- ment of nonlinear atom optics (for a review, see [22]). **photonic crystals for matter waves: bose-einstein ...** - structures for coherent light waves, optical lattices form band-gap structures for coherent matter waves [11] which modify the diffraction properties of atomic wavepackets.

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