

## Physics Of Quantum Fluids New Trends And Hot Topics In Atomic And Polariton Condensates

**a primer on quantum fluids - arxiv** - a primer on quantum fluids august 26, 2016 springer arxiv:1605.09580v2 [cond-mat.quant-gas] 25 aug 2016. preface this book introduces the theoretical description and properties of quantum fluids. the focus is on gaseous atomic bose-einstein condensates and, to a minor extent, superfluid helium, but the underlying concepts are relevant to other forms of quantum fluids such as polariton and photonic ...

**modeling quantum fluid dynamics at nonzero temperatures** - modeling quantum fluid dynamics at nonzero temperatures natalia g. berloff, b, 1, marc brachet, and nick p. proukakis department of applied mathematics and theoretical physics, university of cambridge, cambridge cb3 0wa, united kingdom; bcambridge-skoltech

**metals without electrons: the physics of exotic quantum fluids** - metals without electrons: the physics of exotic quantum fluids derek k.k. lee and andrew j. schofield blackett laboratory, imperial college, prince consort rd, london sw7 2bw

**quantum fluids: the xxi century hydrodynamics** - 1 quantum fluids: the xxi century hydrodynamics dmitri kharzeev high energy physics in the lhc era, valparaiso, chile, 2012 rhic & ags annual users meeting, bnl, june 9-12, 2015

**strongly correlated quantum fluids ... - nc state physics** - 2 between these fields, and also serves as an introduction to the focus issue of new journal of physics on strongly correlated quantum fluids: from ultracold

**backflow and density excitations in quantum fluids - deep blue** - journal of low temperature physics, vol. 18, nos. 1/2, 1975 backflow and density excitations in quantum fluids victor k. wong\* department of physics, university of michigan, ann arbor, michigan

**quantum fluids of light - institutpascal.uca** - quantum fluids allow to emulate complex physical systems which cannot be accessed experimentally, as pointed out, for example, in the seminal book of g. volovik *the universe in an helium droplet* [ 1

**nematic order in quantum hall fluids - university of illinois** - nematic order in quantum hall fluids eduardo fradkin department of physics and institute for condensed matter theory university of illinois, urbana, illinois, usa

**theoretical physics theses - physics.ox** - hydrodynamics of micro-swimmers in complex fluids and environments dphil 2016 yeomans, julia cmt scaffidi, thomas unconventional superconductivity in strontium ruthenate dphil 2016 simon, steve cmt bennett, rachel rosemary physics of microorganism behaviour: motility, synchronisation, run-and-tumble, phototaxis dphil 2015 golestanian, ramin cmt harper, fenner thomas pearson the ...

**chapter i quantum fluids - walther-meißner-institut** - physics 2001 "for the achievement of bose-einstein condensation in dilute gases of alkali atoms, and for early fundamental studies of the properties of the condensates" long period between theoretical prediction and experimental realization: high density, ultra-cold gas of noninteracting atoms required problem: gas liquefies or solidifies more simple to realize: interacting quantum gas, e.g ...

**physics mechanics - unizd** - contents m. delalija, physics mechanics physics is concerned with the basic principles of the universe is one of the foundations on which the other sciences are

based is typical experimental science the beauty of physics lies in the simplicity of its fundamental theories the theories are usually expressed in mathematical form mechanics is the first part of this lecture sometimes referred to ...

**visualizing quantum matter at the atomic-scale** - innovative approach to magnetic quantum fluids. it opens a wide variety of new research avenues including the following projects of immediate interest: a)  $\text{Ho}_2\text{Ti}_2\text{O}_7$  is a pyrochlore magnetic insulator with many similar characteristics to  $\text{Dy}_2\text{Ti}_2\text{O}_7$  and it is widely believed to also contain a fluid of emergent magnetic monopoles. we plan . 4 to use our spin-noise spectroscopy (sns ...

**quantum fluids & superfluids pces 5 - phas.ubc** - quantum fluids & superfluids. all the advances in our understanding of the structure of matter discussed so far depend on . quantum mechanics only insofar as quantum theory explains the structure of the basic units, & how

**wave turbulence in quantum fluids - lancaster eprints** - wave turbulence in quantum fluids  
german v. kolmakov—, peter v. e. mcclintock and sergey v. nazarenko—  
—physics department, new york city college of technology, city university of new york,  
brooklyn, ny 11201, usa, — department of physics, lancaster university,

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