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April 12th, 2020 - bogoliubov de gennes and ginzburg landau equations rupert l frank¹ christian hainzl² benjamin schlein³ and robert seiringer⁴ ¹mathematics 253 37 caltech pasadena ca 91125 usa ²mathematisches institut universitat t ubingen auf der menstelle 10 72076 t ubingen germany'

'thermal conductivity in the vortex lattice of d wave and s May 31st, 2020 - thermal conductivity $\kappa_{xx}(T)$ under a field is calculated by using a microscopic theory based on bogoliubov de gennes equation for describing vortices and linear response theory superconductors with $d \times 2 \times 2$ wave and s wave pairings are comparatively studied modeled by a tight binding extended hubbard hamiltonian in two spatial dimensions the whole T dependence of $\kappa_{xx}(T)$ is calculated"lecture notes in physics bogoliubov de gennes method and

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May 11th, 2020 - we obtained numerical solutions of the bogoliubov de gennes equations for the case where the fermi wavelength of quasi electrons and quasi holes is comparable to the coherence length barrier width and thickness of the intermediate

superconductor resonant states and currents in superconducting kurihara susumu enomoto youichi'

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March 5th, 2020 - we solve the bogoliubov de genes equation self consistently by two dimensional extended hubbard model including the repulsive interaction u and calculate the χ_{xx} on the basis of the linear response theory the picture of the spatial variation of the thermal conductivity χ_r through the spin resolved local dos well explains recent experiments"pairingin thebogoliubov degennes equations

May 2nd, 2020 - pairingin thebogoliubov degennes equations yong jihm kim department ofphysics purdueuniversity westlafayette indiana47907 abstract it is shown that the bogoliubov de genes equations pair the electrons in states which are linear binations of the normal states accordingly the bcs like reduction procedureis required to choose a correct' **'a multiple scattering method for solving bogoliubov de**

May 17th, 2020 - abstract we present a semi phenomenological strategy for studying the density functional theory for superconductors furthermore we develop a multiple scattering approach for solving the corresponding kohn sham bogoliubov de genes ksbg equations self consistently'

'inducing strong superconductivity in wte2 by a proximity

May 6th, 2020 - our theoretical calculations based on the bogoliubov de genes equations in the clean limit predict that the induced superconducting gap is a sizable fraction of the nbse 2 superconducting one when t/wt_2 is less than 30 nm and then decreases quickly as t/wt_2 increases this agrees qualitatively well with the experiments'

'ideals illinois examining mean field approximations and

April 18th, 2020 - examining mean field approximations and bogoliubov de genes bdg equations for topological quantum puting some considerations on the conceptual basis of majorana zero modes in p ip superconductors mzm in superconductors and its application for topological quantum puting is based on

mean field approximations and is derived from'

'charge of a quasiparticle in a superconductor

March 26th, 2020 - charge of a quasiparticle in a

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a material requires the consideration of the detail of the

electronic structure i begin with ab initio methods as numerical

tools i use monte carlo classical techniques self consistent

bogoliubov de genes method and dynamical mean field theory

some of my recent works are listed below"**superfluidity in**

topologically nontrivial flat bands

June 1st, 2020 - in terms of new fermionic operators see

derivation of the bogoliubov de genes hamiltonian in methods

the mean field hamiltonian reads with the nambu spinor given

by and the bdg hamiltonian is a'

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May 12th, 2020 - the purpose of this book is to provide an

elementary yet systematic description of the bogoliubov de

genes bdg equations their unique symmetry properties and

their relation to green s function theory specifically it

introduces readers to the supercell technique for the solutions of

the bdg equations as well as other related techniques for more

rapidly solving the equations in practical applications'

'pdf ab initio theory of superconductivity i density

May 24th, 2020 - an approach to the description of

superconductors in thermal equilibrium is developed within a

formally exact density functional framework the theory is

formulated in terms of three densities the ordinary electron

density the superconducting order parameter and the diagonal

of the nuclear n body density matrix the electron density and

the order parameter are determined by kohn sham'

'discretization and solution of the inhomogeneous

April 23rd, 2020 - recently the method has been applied to

the solution of the bogoliubov de genes equations for

ultracold gases and in this paper we describe the

mathematical and putational scheme we use we describe how it is applied to the collective excitations of gases trapped in a spheroidal potential and present results that verify the efficiency and accuracy of this putational scheme'

'bogoliubov transformation

May 9th, 2020 - in theoretical physics the bogoliubov transformation also known as bogoliubov valatin transformation were independently developed in 1958 by nikolay bogolyubov and john gee valatin for finding solutions of bcs theory in a homogeneous system the bogoliubov transformation is an isomorphism of either the canonical mutation relation algebra or canonical antimutation relation algebra'

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May 16th, 2020 - bogoliubov de genes method and its applications provides a timely primer on a method increasingly used for various applications such as investigation of the electronic authored by an active researcher in the field covers the most important applications of the bologliubov de genes method at a 'lecture notes in physics request pdf

May 25th, 2020 - the bogoliubov de genes equations for superconductors are derived in the continuum the symmetry of the equations is discussed finally a connection of the bdg equations to the green s"finite element method for bogoliubov de genes equation

March 17th, 2020 - recently nano structure superconductors have been studied widely especially using the ginzburg landau equation but the quasi particle structures have not been studied so we have developed the finite element method for solving the bogoliubov de genes equation of nano scale superconductors in arbitrary geometries we have applied it to a nano scaled superconducting square plate'

'enhanced superconductivity in quasi periodic crystals

April 30th, 2020 - we study superconductivity in a family of one dimensional inmensurate system with s wave pairing interaction the inmensurate potential can alter the spatial characteristics of electrons in the normal state leading to either extended critical or localized wave functions we find that superconductivity is significantly enhanced when the electronic wave function exhibits a critical'

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'jian xin zhu author of bogoliubov de genes method and May 4th, 2020 - jian xin zhu is the author of bogoliubov de genes method and its applications 5 00 avg rating 1 rating 0 reviews"a recursion method for solving the bogoliubov equations

April 26th, 2020 - abstract we adopted a recursion method for solving the bogoliubov de genes equations for inhomogeneous superconductors described by a hubbard model with attractive negative u electron electron interaction we illustrate it with results for a negative u impurity in a non interacting host'

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'finite element method for bogoliubov de genes equation

May 20th, 2020 - in summary we have developed the finite element method for the bogoliubov de genes equation which is applicable to arbitrary nano structures in contrast to the previous special function expansion method we applied it a square superconducting plate and obtained the order parameter distribution and the local density of states"bogoliubov de genes method and its applications lecture

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'onthe bogoliubov de genes equations

May 19th, 2020 - superconductors has been based on the bogoliubov de genes generalized mean field method 2 consideration of some simple examples shows that results obtained by this method at least if applied naively may be wrong 3 this is because in the cases of interest the response of the cooper pairs cannot be ignored 4"pdf efficient numerical approach to inhomogeneous

May 28th, 2020 - we employ the bogoliubov de genes approach for approximants of different sizes and determine the local pairing amplitude Δ_i as well its spatial average Δ_0 the superconducting order parameter"vortex structure from bcs to bec superfluid keio university

June 2nd, 2020 - original language english pages from to 190 194 number of pages 5 journal physica c superconductivity and its applications volume 437 438 issue number"visualization of atomic scale phenomena in superconductors

February 24th, 2020 - we propose a simple method of calculating inhomogeneous atomic scale phenomena in superconductors which makes use of the wave function information traditionally discarded in the construction of tight binding models used in the bogoliubov de genes equations the method uses symmetry based first principles wannier functions to visualize the effects of superconducting pairing on the"bogoliubov de genes method and its applications book by

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properties"**inpatibility of time dependent bogoliubov de gennes and**

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