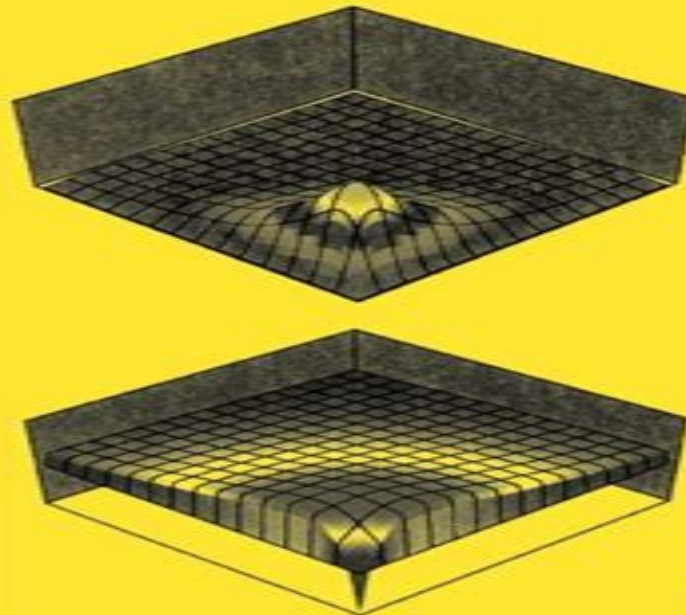


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Stochastic Variational Approach to Quantum-Mechanical Few-Body Problems



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Stochastic Variational Approach To Quantummechanical Fewbody Problems

Yasuyuki Suzuki, Kalman Varga



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Variational Approach to Quantum-Mechanical Few-Body Problems Yasuyuki Suzuki,Kalman Varga,2003-07-01 The quantum mechanical few body problem is of fundamental importance for all branches of microphysics and it has substantially broadened with the advent of modern computers This book gives a simple unified recipe to obtain precise solutions to virtually any few body bound state problem and presents its application to various problems in atomic molecular nuclear subnuclear and solid state physics The main ingredients of the methodology are a wave function expansion in terms of correlated Gaussians and an optimization of the variational trial function by stochastic sampling The book is written for physicists and especially for graduate students interested in quantum few body physics Few-Body Problems in Physics

'02 Rajmund Krivec,Mitja Rosina,Bojan Golli,Simon Širca,2012-12-06 In this Supplement we have collected the invited and contributed talks presented at the XVIII European Conference on Few Body Problems in Physics organised by the Jozef Stefan Institute and the University of Ljubljana Slovenia The Conference sponsored by the European Physical Society took place at the lakeside resort of Bled from 8 to 14 September 2002 This meeting was a part of the series of European Few Body Conferences previously held in Evora Portugal 2000 Autrans France 1998 Peniscola Spain 1995 Our aim was to emphasise to a larger extent than at previous Conferences the interdisciplinarity of research fields of the Few Body community To promote a richer exchange of ideas we therefore strived to avoid parallel sessions as much as possible On the other hand to promote the participation of young scientists who we feel will eventually shape the future of Few Body Physics we wished to give almost all attendees the opportunity to speak **Nanotechnology in the Security Systems** Janez Bonča,Sergei

Kruchinin,2014-07-23 The topics discussed at the NATO Advanced Research Workshop Nanotechnology in the Security Systems included nanophysics nanotechnology nanomaterials sensors biosensors security systems explosive detection There have been many significant advances in the past two years and some entirely new directions of research are just opening up Recent advances in nano science have demonstrated that fundamentally new physical phenomena are found when systems are reduced in size with dimensions comparable to the fundamental microscopic length scales of the investigated material Recent developments in nanotechnology and measurement techniques now allow experimental investigation of transport

properties of nano devices This work will be of interest to researchers working in spintronics molecular electronics and quantum information processing Many-Electron Approaches in Physics, Chemistry and Mathematics Volker Bach, Luigi Delle Site, 2014-07-01 This book provides a broad description of the development and computational application of many electron approaches from a multidisciplinary perspective In the context of studying many electron systems Computer Science Chemistry Mathematics and Physics are all intimately interconnected However beyond a handful of communities working at the interface between these disciplines there is still a marked separation of subjects This book seeks to offer a common platform for possible exchanges between the various fields and to introduce the reader to perspectives for potential further developments across the disciplines The rapid advances of modern technology will inevitably require substantial improvements in the approaches currently used which will in turn make exchanges between disciplines indispensable In essence this book is one of the very first attempts at an interdisciplinary approach to the many electron problem

Resonances in Few-Body Systems A.T. Kruppa, R.G. Lovas, 2012-12-06 Few body resonances are in the frontiers of resonance studies Very similar problems occur in atomic and molecular physics nuclear physics and high energy physics This collection presents the state of the art of the studies of resonance states in these fields and demonstrates their common methodological aspects Most of the contributions are theoretical but quite a few are closely linked with experiments through the data they are dealing with *Nuclear Dynamics: From Quarks to Nuclei* M.T. Pena, A. Stadler, A.M. Eiró, J. Adam, 2012-12-06 This volume collects the invited and contributed papers presented at the work shop Nuclear Dynamics from quarks to NUCLEI which was hosted by Centro de Física das Interações Fundamentais CFIF at Instituto Superior Técnico 1ST in Lisbon Portugal from October 31st to November 2nd 2002 The response to this initiative exceeded the initial expectations of the organizers Participants arrived to Lisbon not only from countries within a close vicinity to Portugal but also from Central and Northern Europe from Africa from the United States from South and Central America and from Japan This meeting was the 20th in a series of schools or workshops organized every fall in Lisbon Along the years the series of meetings has covered a wide range of topics in Nuclear and Particle Physics The 2002 meeting had two unique features 1 Nuclear Physics at Intermediate Energies For the first time the CFIF Fall Meeting focused on nuclear processes at intermediate energies In physics an energy range implies a selection of the degrees of freedom which are probed Experiments and theory at intermediate energies bridge the interesting border between two pictures of reality the nucleons and their accompanying cloud of pions which make up the nuclei forming most of the matter around us and the underlying quark gluon structure of the nucleons themselves The intriguing connection between the two descriptions is tested by experiments using electrons photons and mesons or heavy ion collisions **Computational Science and Its Applications - ICCSA 2025**

Workshops Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, Yeliz Karaca, Maria Noelia Faginas Lago, Francesco Scorza, Ana Cristina Braga, 2025-08-07 The fourteen volume set LNCS 15886 15899 constitutes the papers of several

workshops which were held in conjunction with the 25th International Conference on Computational Science and Its Applications ICCSA 2025 held in Istanbul Turkey during June 30 July 3 2025 The 362 full papers 37 short papers and 2 PHD showcase included in this book were carefully reviewed and selected from 1043 submissions In addition the conference consisted of 58 workshops focusing on very topical issues of importance to science technology and society from new mathematical approaches for solving complex computational systems to information and knowledge in the Internet of Things new statistical and optimization methods several Artificial Intelligence approaches sustainability issues smart cities and related technologies

Introduction To Modern Methods Of Quantum Many-body Theory And Their Applications

Adelchi Fabrocini,Stefano Fantoni,Eckhard Krotscheck,2002-08-19 This invaluable book contains pedagogical articles on the dominant nonstochastic methods of microscopic many body theories the methods of density functional theory coupled cluster theory and correlated basis functions in their widest sense Other articles introduce students to applications of these methods in front line research such as Bose Einstein condensates the nuclear many body problem and the dynamics of quantum liquids These keynote articles are supplemented by experimental reviews on intimately connected topics that are of current relevance The book addresses the striking lack of pedagogical reference literature in the field that allows researchers to acquire the requisite physical insight and technical skills It should therefore provide useful reference material for a broad range of theoretical physicists in condensed matter and nuclear theory

An Advanced Course in Computational Nuclear Physics Morten Hjorth-Jensen,Maria Paola Lombardo,Ubirajara van Kolck,2017-05-09 This graduate level text collects and synthesizes a series of ten lectures on the nuclear quantum many body problem Starting from our current understanding of the underlying forces it presents recent advances within the field of lattice quantum chromodynamics before going on to discuss effective field theories central many body methods like Monte Carlo methods coupled cluster theories the similarity renormalization group approach Green s function methods and large scale diagonalization approaches Algorithmic and computational advances show particular promise for breakthroughs in predictive power including proper error estimates a better understanding of the underlying effective degrees of freedom and of the respective forces at play Enabled by recent improvements in theoretical experimental and numerical techniques the state of the art applications considered in this volume span the entire range from our smallest components quarks and gluons as the mediators of the strong force to the computation of the equation of state for neutron star matter The lectures presented provide an in depth exposition of the underlying theoretical and algorithmic approaches as well details of the numerical implementation of the methods discussed Several also include links to numerical software and benchmark calculations which readers can use to develop their own programs for tackling challenging nuclear many body problems

Mathematical Reviews ,2005 Uncertainty

quantification in nuclear physics Maria Piarulli,Evgeny Epelbaum,Christian Forssén,2023-08-30 **Bibliographic Guide to**

Psychology New York Public Library. Research Libraries,1999 **Exotic Clustering** Salvatore Costa,Antonio

Insolia, Cristina Tuvè, 2002-12-06 CRIS is a series of topical interdisciplinary conferences held every other year in the Catania area. CRIS 2002 was devoted to cluster physics. Varied yet related subjects such as proton emission, alpha decay, exotic cluster emission, cluster structure, problems in light nuclei, atomic clusters, exotic clusters of quarks such as the predicted six quark bound state H_0 and larger lumps of strange quark matter such as strange neutron stars and other astrophysical objects were simultaneously reviewed and discussed. Topics include clustering, exotic clustering, clusters, nuclear physics, neutron stars, strangeness, quark matter, strange matter, and cluster radioactivity. **Progress of Theoretical Physics**, 2001 **Physics Letters**, 2001 **Nuclei and Mesoscopic Physics**. Vladimir Zelevinsky, 2005-07-22 The goal of the Workshop was to open the way for exchange of ideas between physicists working in different areas of quantum physics but studying the objects of mesoscopic nature which reveal important generic features and allow for similar approaches. Among these objects are complex nuclei, atoms and molecules, nanoscale condensed matter systems, atomic clusters, atoms in traps, prototypes of quantum computers, etc. The Workshop WNMP 2004 was organized with the idea of bringing together researchers actively working on the multitude of mesoscopic problems in various areas and through cross-fertilizing discussions make an attempt to bridge the existing gaps, find a common language and clear the way for future collaborations. The topics of common interest included general features of mesoscopic systems, experimental, theoretical and computational methods used for their studies, coherent phenomena such as superfluidity and superconductivity, many-body quantum chaos, marginally stable and open systems, phase transitions and thermodynamic properties, an exciting subject with contradictory opinions reflected in the Proceedings. **Acta Physica Polonica**, 2008 **The Cumulative Book Index**, 1999 *American Book Publishing Record*, 1999

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