

Selected Scientific Papers of
**Sir Rudolf
Peierls**
With Commentary

Editors

**R H Dalitz
Sir Rudolf Peierls**

Selected Scientific Papers Of Sir Rudolf Peierls

Rudolf Ernst Peierls, Sabine Lee



Selected Scientific Papers Of Sir Rudolf Peierls:

Selected Scientific Papers Of Sir Rudolf Peierls, With Commentary By The Author Richard H Dalitz, Sir Rudolf E Peierls, 1997-04-11 This book is a collection of the major scientific papers of Sir Rudolf Peierls 1907-95 including the Peierls Frisch Memoranda of 1940 on the feasibility and the predicted human effects of an atomic bomb made of uranium 235 His papers range widely in topic They include much on the fundamentals of solid state physics the thermal and electric conductivity of materials as a function of temperature T especially $T = 0$ the interpretation of the de Haas van Alphen effect observed for a metal in a magnetic field and the basics of transport theory Many are on problems in statistical mechanics including his constructive paper demonstrating the existence of a phase transition for Ising's model for a two dimensional ferromagnet In nuclear physics they include the first calculations with Bethe on the photo disintegration of the deuteron made in response to a challenge by Chadwick the Kapur Peierls theory of resonance phenomena in nuclear reactions the Bohr Peierls Placzek continuum model for complex nuclei which first explained the narrow resonances observed for low energy neutrons incident on very heavy nuclei and the Peierls Thouless variational approach to collective phenomena in nuclei Several of Peierls's wartime papers now declassified are here published for the first time Brief commentaries on most of the papers in this book were added by Peierls to indicate subsequent developments and their relationship with other work or to correct errors found later on A complete bibliography of his writings is given as an appendix

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Sir Rudolf Peierls: Selected Private And Scientific Correspondence (Volume 1) Sabine Lee, 2007-11-12 This edition of the private and scientific correspondence of Sir Rudolf Peierls gives a unique insight into the life and work of one

of the greatest theoretical physicists of the 20th century Rudolf Peierls scientific work contributed to the early developments in quantum mechanics and he is well known and much appreciated for his contributions to various disciplines including solid state physics nuclear physics and particle physics As an enthusiastic and devoted teacher he passed on his knowledge and understanding and inspired the work of collaborators and students alike As an effective administrator he was responsible almost single handedly for the establishment of an outstanding successful centre of theoretical physics in Birmingham and later contributed much to theoretical physics in Oxford A meticulous collector of correspondence Sir Rudolf left a fascinating collection of letters in some cases spanning more than seven decades This collection includes correspondence with his parents his wife the Russian born physicist Genia Kannegieser life long friends such as Hans Bethe and many great physicists including Wolfgang Pauli Niels Bohr Werner Heisenberg Lev Landau and George Placzek to name but a few This first volume which covers the years 1922 to 1945 contains much of the early family correspondence letters exchanged between Rudolf and Genia Peierls before and after their marriage in 1931 correspondence relating to early developments in quantum physics and interesting material relating to the development of nuclear weapons The extensive apparatus provides an invaluable background which allows the reader to put the presented documents into their multi faceted social political and scientific context

Sir Rudolf Peierls Rudolf Ernst Peierls, Sabine Lee, 2007 Noncommutative differential geometry is a novel approach to geometry that is paving the way for exciting new directions in the development of mathematics and physics The contributions in this volume are based on papers presented at a workshop dedicated to enhancing international cooperation between mathematicians and physicists in various aspects of frontier research on noncommutative differential geometry The active contributors present both the latest results and comprehensive reviews of topics in the area The book is accessible to researchers and graduate students interested in a variety of mathematical areas related to noncommutative geometry and its interface with modern theoretical physics

Sir Rudolf Peierls, 2007 *Quantum Legacy, A: Seminal Papers Of Julian Schwinger* Kimball A Milton, 2000-05-25 Julian Schwinger 1918 1994 was one of the giants of 20th Century science He contributed to a broad range of topics in theoretical physics ranging from classical electrodynamics to quantum mechanics from nuclear physics through quantum electrodynamics to the general theory of quantum fields Although his mathematical prowess was legendary he was fundamentally a phenomenologist He received many awards including the first Einstein Prize in 1951 and the Nobel Prize in 1965 which he shared with Richard Feynman and Sin itiro Tomonaga for the self consistent formulation of quantum electrodynamics into a practical theory His more than 70 doctoral students have played a decisive role in the development of science in the second half of this century This important volume includes many of Schwinger s most important papers on the above and other topics such as the theory of angular momentum and the theory of many body systems The papers collected here continue to underlie much of the work done by theoretical physicists today

Spectroscopy with Coherent Radiation N. F. Ramsey, 1998 This invaluable volume contains a biography of Nobel laureate

Norman F Ramsey as well as reprints and retrospective commentaries on 56 papers relating to spectroscopy with coherent radiation The earliest papers describe his work with I I Rabi developing the then new magnetic resonance method and its uses to measure magnetic moments of the different forms of hydrogen and to discover the deuteron electric quadrupole moment Later papers include his invention of the method of coherent separated oscillatory fields the development of the atomic hydrogen maser and the uses of these methods to measure properties of nucleons nuclei atoms and molecules and to test parity and time reversal symmetries Other papers present the first successful theories of nuclear magnetic shielding NMR chemical shifts electron coupled nuclear spin spin interactions and negative absolute temperatures **The Origin Of**

The Third Family O Barnabei, Fabio Roversi Monaco, Luciano Maiani, R A Ricci, 1998-06-04 In 1967 a group of physicists from the University of Bologna led by A Zichichi published a proposal to search for a heavy lepton using the Frascati e e collider The proposal whose key pages are reproduced in this book on the 30th anniversary of the publication was the consequence of many years of work started at CERN where in addition to the original idea of searching for a heavy lepton carrying its own leptonic number new technologies were invented to allow the detection of a signal whose identification against the high background of hadronic processes was extremely difficult More than ten years of work by A Zichichi together with his students and his collaborators have paved the way for the discovery of the Third Family of fundamental particles In this authoritative volume a group of eminent physicists unequivocally establishes the origin of the Third Family of the basic constituents of matter **The Legacy Of Leon Van Hove** Alberto Giovannini, 2000-11-07 This important volume describes the wide ranging scientific activities of L on Van Hove through commentaries by his colleagues and a selection of his most influential papers and documents The reprinted papers are grouped by topic starting from his early work in mathematics and theoretical and statistical physics up to his very last contributions in elementary particle physics and multiparticle dynamics Van Hove s career as teacher director and science advisor in many European institutions is presented in sketches by friends and coworkers A selection of his speeches and documented thoughts on science completes the volume

Formation and Evolution of Black Holes in the Galaxy Gerald Edward Brown, Chang-Hwan Lee, 2003 In published papers H A Bethe and G E Brown worked out the collapse of large stars and supernova explosions They went on to evolve binaries of compact stars finding that in the standard scenario the first formed neutron star always went into a black hole in common envelope evolution C H Lee joined them in the study of black hole binaries and gamma ray bursts They found the black holes to be the fossils of the gamma ray bursts From their properties they could reconstruct features of the burst and of the accompanying hypernova explosions This invaluable book contains 23 papers on astrophysics chiefly on compact objects written over 23 years The papers are accompanied by illuminating commentary In addition there is an appendix on kaon condensation which the editors believe to be relevant to the equation of state in neutron stars and to explain why black holes are formed at relatively low masses

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