RUTHERFORD AND BOLTWOOD

Letters on Radioactivity

edited by Lawrence Badash

Rutherford And Boltwood Letters On Radioactivity

Andrew Brown

Rutherford And Boltwood Letters On Radioactivity:

Rutherford and Boltwood Lawrence Badash.1969 **Rutherford and Boltwood** Ernest Rutherford.Bertram B. Rutherford and Boltwood: letters on radioactivity, ed Ernest Rutherford, Bertram Borden Boltwood, 1969 Boltwood, Lawrence Badash, The Neutron and the Bomb: A Biography of Sir James Chadwick Andrew Brown, 2019-08-15 James Chadwick 1891 1974 came from a humble background his father was a cotton spinner He was accepted in the physics department of Sir Ernest Rutherford at Manchester University in 1908 on a scholarship and soon started publishing new findings about radioactivity This led to a traveling scholarship to Berlin where he made the important discovery of the continuous spectrum of particles When the World War I broke out Chadwick was interned by the Germans as an enemy alien for the next four years but continued experiments in the prison camp On his return to England in broken health Rutherford invited Chadwick to join the Cavendish Laboratory in Cambridge where he became Rutherford's deputy and oversaw much groundbreaking physics research over the next 15 years Chadwick concentrated on finding evidence for the neutron an uncharged nuclear particle whose existence was first proposed by Rutherford in 1920 Having noticed anomalous results from the Curie laboratory in Paris in 1932 Chadwick used simple bench top apparatus to convince himself after weeks of intense observations that he had definite evidence for the existence of the neutron The Nobel Prize for physics followed in 1935 that year he moved to Liverpool University to head his own department At the outbreak of World War II the feasibility of atomic bombs of unprecedented explosive power was already being discussed Chadwick drafted the British MAUD committee s historic reports in the summer of 1941 which concluded that atomic bombs were indeed feasible with sufficient industrial capacity In wartime Britain this was impossible but in 1943 Chadwick moved to the US as head of the British scientists working on the Manhattan Project He formed an unlikely alliance with its leader General Leslie Groves and became an adroit scientist diplomat Witnessing the first explosion of a plutonium fueled device at the Trinity Test shattered him Chadwick believed that dropping atomic bombs on Japanese cities was justified but the development of nuclear weapons as an unintended consequence of his discovery of the neutron caused him deep personal anguish Until this excellent book by Andrew Brown Chadwick has remained the most shadowy of the atomic scientists who for better or worse gave the human species mastery over nuclear energy Nigel Calder New Scientist Andrew Brown s biography beautifully reveals Chadwick s scientific diplomatic and personal achievements Roger H Stuewer Physics Today I can warmly recommend this book to all interested in the life of a remarkable scientist who played a crucial role in a formative period of the modern world Hermann Bondi Times Higher Education Supplement This is the biography of a physicist who made one of the most important discoveries in nuclear physics but retained to his old age the shyness of a young lad Andrew Brown takes us through Chadwick's life as an adventure I found it a very good read Hans Bethe American Journal of Physics The tale of so sterling a character even when told as well as in this book may be a little short on light moments but any reader interested in the

evolution of physics from an academic passion to a leading role on the world stage will find it a fascinating story and a worthy tribute to a great scientist Brian Pippard Nature makes absorbing reading more than the life story of a remarkable man unfolds the tremendous transformation that science underwent in the 20th century Joseph Rotblat avidly researched and artfully written This biography blends elegantly direct scientific descriptions with often witty episodes and character summaries William Lanouette Bulletin of the Atomic Scientists **Unravelling the Mystery of the Atomic Nucleus** Bernard Fernandez, Georges Ripka, 2012-09-28 Unravelling the Mystery of the Atomic Nucleus is a history of atomic and nuclear physics It begins in 1896 with the discovery of radioactivity which leads to the discovery of the nucleus at the center of the atom It follows the experimental discoveries and the theoretical developments up to the end of the Fifties Unlike previous books regarding on history of nuclear physics this book methodically describes how advances in technology enabled physicists to probe the physical properties of nuclei as well as how the physical laws which govern these microscopic systems were progressively discovered The reader will gain a clear understanding of how theory is inextricably intertwined with the progress of technology Unravelling the Mystery of the Atomic Nucleus will be of interest to physicists and to historians of physics as well as those interested development of science The Solvay Councils and the Birth of Modern Physics Pierre Marage, Grégoire Wallenborn, 2013-11-11 FOREWORD This book came about as a result of two events an exhibition on the Solvay Physics Councils held in Brussels in May 1995 and a conference on the same theme which took place at the Free University of Brussels ULB on May 10th 1995 A book was published in French in conjunction with the exhibition and much of the present publication is taken from that book In addition we have included some of the papers presented at the conference as we believe they add a further dimension to the history of the Councils The French term Conseil Solvay is usually translated into English as Solvay Conference or Congress We have elected to retain the particular connotations of the French word Conseil by translating it instead as Council The Councils were after all no ordinary conferences Only a limited number of participants was invited hand picked by a scientific committee who for five to six days took an active part in the sessions and the long discussions that followed Each day one or two physicists would present a paper on a subject that had been chosen by the committee to fit in with the overall theme of the Council The word Conseil expressly implies the gathering of an elite Current Catalog National Library of Medicine (U.S.),1970 First multi year cumulation covers six to engage in debate years 1965 70 Otto Hahn and the Rise of Nuclear Physics W.R. Shea, 2012-12-06 and less as the emanation unden ent radioactive decay and it became motion less after about 30 seconds Since this process was occurring very rapidly Hahn and Sackur marked the position of the pointer on a scale with pencil marks As a timing device they used a metronome that beat out intervals of approximately 1 3 seconds This simple method enabled them to determine that the half life of the emanations of actinium and emanium were the same Although Giesel's measurements had been more precise than Debierne's the name of actinium was retained since Debierne had made the discovery first Hahn now returned to his sample of barium chloride He

soon conjectured that the radium enriched preparations must harbor another radioactive sub stance The liquids resulting from fractional crystallization which were sup posed to contain radium only produced two kinds of emanation One was the long lived emanation of radium the other had a short life similar to the emanation produced by thorium Hahn tried to separate this substance by adding some iron to the solutions that should have been free of radium but to no avail Later the reason for his failure became apparent The element that emitted the thorium emanation was constantly replenished by the ele ment believed to be radium Hahn succeeded in enriching a preparation until it was more than 100 000 times as intensive in its radiation as the same quantity of thorium Flash of the Cathode Rays Per F Dahl, 1997-01-01 The electron is fundamental to almost all aspects of modern life controlling the behavior of atoms and how they bind together to form gases liquids and solids Flash of the Cathode Rays A History of J J Thomson's Electron presents the compelling story of the discovery of the electron and its role as the first subatomic particle in nature The **Measuring Eternity** Martin Gorst, 2002-03-26 The untold story of the religious figures philosophers astronomers geologists physicists and mathematicians who for more than four hundred years have pursued the answer to a fundamental question at the intersection of science and religion When did the universe begin The moment of the universe's conception is one of science's Holy Grails investigated by some of the most brilliant and inquisitive minds across the ages Few were more committed than Bishop James Ussher who lost his sight during the fifty years it took him to compose his Annals of all known history now famous only for one date 4004 b c Ussher's date for the creation of the world was spectacularly inaccurate but that didn t stop it from being so widely accepted that it was printed in early twentieth century Bibles As writer and documentary filmmaker Martin Gorst vividly illustrates in this captivating character driven narrative theology let Ussher down just as it had thwarted Theophilus of Antioch and many before him Geology was next to fail the test of time In the eighteenth century naturalist Comte de Buffon working out the rate at which the earth was supposed to have cooled came up with an age of 74 832 years even though he suspected this was far too low Biology then had a go in the hands of fossil hunter Johann Scheuchzer who alleged to have found a specimen of a man drowned at the time of Noah s flood Regrettably it was only the imprint of a large salamander And so science inched forward via Darwinism thermodynamics radioactivity and most recently the astronomers at the controls of the Hubble space telescope who put the beginning of time at 13 4 billion years ago give or take a billion Taking the reader into the laboratories and salons of scholars and scientists visionaries and eccentrics Measuring Eternity is an engagingly written account of an epic often quixotic quest of how individuals who dedicated their lives to solving an enduring mystery advanced our knowledge of the universe

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