

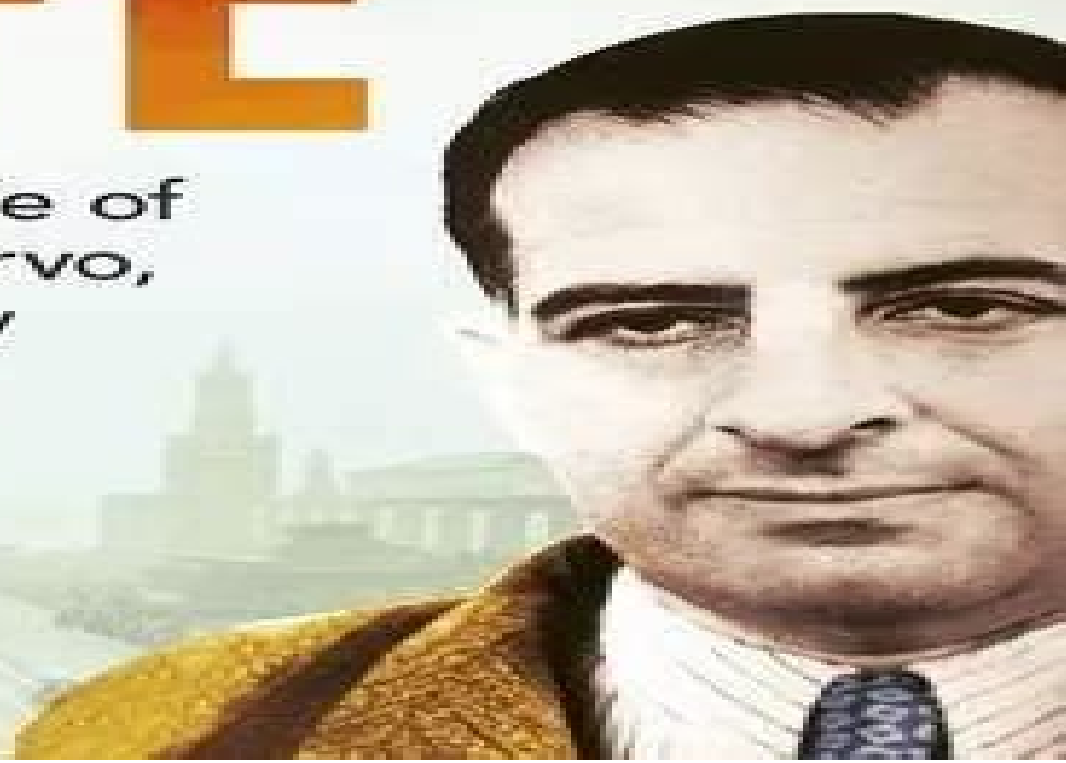
FRANK CLOSE

HALF LIFE

The Divided Life of
Bruno Pontecorvo,
Physicist or Spy

'A fresh perspective ...
impressively researched'
Guardian

'Engrossing' *Economist*



Half Life The Divided Life Of Bruno Pontecorvo Physicist Or Spy

Frank Close



Half Life The Divided Life Of Bruno Pontecorvo Physicist Or Spy:

Half-Life Frank Close, 2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protégé of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In **Half Life** physicist and historian Frank Close offers a heretofore untold history of Pontecorvo's life based on unprecedented access to Pontecorvo's friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo's life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives **Half Life** is a history of nuclear physics at perhaps its most powerful when it created the bomb physics at perhaps its most powerful when it created the bomb

Half-Life Frank Close, 2015-02-03 It was at the height of the Cold War in the summer of 1950 when Bruno Pontecorvo mysteriously vanished behind the Iron Curtain Who was he and what caused him to disappear Was he simply a physicist or also a spy and communist radical A protégé of Enrico Fermi Pontecorvo was one of the most promising nuclear physicists in the world He spent years hunting for the Higgs boson of his day the neutrino a nearly massless particle thought to be essential to the process of particle decay His work on the Manhattan Project helped to usher in the nuclear age and confirmed his reputation as a brilliant physicist Why then would he disappear as he stood on the cusp of true greatness perhaps even the Nobel Prize In **Half Life** physicist and historian Frank Close offers a heretofore untold history of Pontecorvo's life based on unprecedented access to Pontecorvo's friends and family and the Russian scientists with whom he would later work Close takes a microscope to Pontecorvo's life combining a thorough biography of one of the most important scientists of the twentieth century with the drama of Cold War espionage With all the elements of a Cold War thriller classified atomic research an infamous double agent a possible kidnapping by Soviet operatives **Half Life** is a history of nuclear physics at perhaps its most powerful when it created the bomb Physics at perhaps its most powerful when it created the bomb

Technology Security and National Power Stephen D. Bryen, 2017-07-05 In **Technology Security and National Power** Stephen D Bryen shows how the United States has squandered its technological leadership through unwise policies Starting from biblical times he shows how technology has either increased national power or led to military and political catastrophe He goes on to show how the US has eroded its technological advantages endangering its own security The scope of **Technology Security and National Power** extends across 3 000 years of history from an induced plague in Athens to

chemical weapons at Ypres to an atomic bomb on Hiroshima to the nuclear balance of terror It describes new weapons systems and stealth jets cyber attacks on national infrastructure the looting of America s Defense secrets and much more The core thesis is supported by unique insight and new documentation that reaches into today s conflicted world More than a litany of recent failures and historical errors this book is a wake up call for political actors and government officials who seem unable to understand the threat Technology Security and National Power proposes that the United States can again become a winner in today s globalized environment

Maker of Patterns Freeman Dyson, 2018-04-10 A lifetime of candid reflections from physicist Freeman Dyson an acute observer of personality and human foibles New York Times Book Review Written between 1940 and the late 1970s the postwar recollections of renowned physicist Freeman Dyson have been celebrated as an historic portrait of modern science and its greatest players including Robert Oppenheimer Richard Feynman Stephen Hawking and Hans Bethe Chronicling the stories of those who were engaged in solving some of the most challenging quandaries of twentieth century physics Dyson lends acute insight and profound observations to a life s work spent chasing what Einstein called those deep mysteries that Nature intends to keep for herself Whether reflecting on the drama of World War II the moral dilemmas of nuclear development the challenges of the space program or the demands of raising six children Dyson s annotated letters reveal the voice of one more creative than almost anyone else of his generation Kip Thorne An illuminating work in these trying times *Maker of Patterns* is an eyewitness account of the scientific discoveries that define our modern age

Theories of Everything: Ideas in Profile Frank Close, 2017-03-02 Physicist Frank Close takes the reader to the frontiers of science in a vividly told investigation of revolutionary science and enterprise from the seventeenth century to the present He looks at what has been meant by theories of everything explores the scientific breakthroughs they have allowed and shows the far reaching effects they have had on crucial aspects of life and belief Theories of everything he argues can be described as those which draw on all relevant branches of knowledge to explain everything known about the universe Such accounts may reign supreme for centuries Then often as a result of the advances they themselves have enabled a new discovery is made which the current theory cannot explain A new theory is needed which inspiration sometimes supplies Moving from Isaac Newton s work on gravity and motion in the seventeenth century to thermodynamics and James Clerk Maxwell s laws of electromagnetism in the nineteenth to Max Planck s and Paul Dirac s quantum physics in the twentieth Professor Close turns finally to contemporary physics and the power and limitations of the current theory of everything The cycle in which one theory of everything is first challenged and then replaced by another is continuing right now

[The Bridge in the Parks](#) Dennis G. Molinaro, 2021-07-30 Established in the 1940s the Five Eyes intelligence network consists of Australia Britain Canada New Zealand and the United States The alliance was integral to shaping domestic and international security decisions during the Cold War yet much of the intelligence history of these countries remains unknown In *The Bridge in the Parks* intelligence scholars from across the Five Eyes come together to

present case studies detailing the varied successes and struggles their countries experienced in the world of Cold War counter intelligence The case studies draw on newly declassified documents on a variety of topics including civil liberties agent handling wiretapping and international relations Collectively these studies highlight how Cold War intelligence history is more nuanced than it has often been portrayed and much like in the world of intelligence nothing is ever entirely as it seems

Science and Society Eric S. Swanson, 2015-09-25 This undergraduate textbook educates non science majors our future policy makers on how science works the rules that underpin our existence our impact on nature and nature s impact on us The book provides a concise historically based non mathematical treatment of modern physics relevant to societal issues It challenges readers to examine the problems we face and their own beliefs in light of the scientific method With a narrative structure Science and Society explains the scientific process and the power it brings to dealing with the natural world The reader will gain a deeper understanding of scientific results reported by the media and thus the tools to develop a rational fact based assessment of energy and resource policy Praise for Science and Society Anyone who thinks society can be managed without science should think again or better read this book Eric Swanson explains how science permeates society and with simple examples of the scientific process he shows its special power in dealing with the natural world This is a must read for the world s seven billion scientists F E Close OBE Oxford University author of among others Half Life The Divided Life of Bruno Pontecorvo Physicist or Spy The Infinity Puzzle and Neutrino *Studies in Intelligence*, 2014

The Golden Age of Italian Jews: 1848-1938 Gino Segrè, 2025-08-12 With this fine book Gino Segr weaves together the history of the golden era for Italian Jews dating from its optimistic beginning in Piedmont in 1848 to its bitter end less than 100 years later with the rise of fascism and the 1938 passage of the Racial Laws Written with his customary style and warmth sense of history and penetrating irony and using the often moving stories of individual lives many of them drawn from his own distinguished family tree Segr brings to this story of his own deep and abiding roots an important cultural and political history with many lessons for our own times Judith R Goodstein author of Einstein s Italian Mathematicians Ricci Levi Civita and the Birth of General Relativity The Golden Age of Italian Jews by Gino Segr covers the nine decades from 1848 to 1938 during which Italian Jews rose from their socially constrained ghetto life to acquire full civil rights and eventually to occupy commanding positions in Italian society Never more than one tenth of one percent of the total Italian population Jews became army generals mayors of major cities prime ministers foreign secretaries and high ranking university professors Segr explains what made this meteoric rise possible relating how Jews negotiated their futures with a three step process seizing opportunities to gain acceptance excelling in their trades and professions and often successfully assimilating into the upper strata of Italian society By the early twentieth century Jews were integral to Italian life but all of their progress came to a sudden cataclysmic end in 1938 with the institution of Italy s racial laws by the fascist government Segr includes several illustrative anecdotes from his family s history One tells of his great grandfather Marco Treves who was born in 1814 Treves

became an architect a career path previously closed to Jews he worked in Rome and Paris before settling in Florence There ever a pious Jew he reached the pinnacle of his career designing the city s grand new synagogue and cemetery His favorite daughter the author s grandmother Amelia Treves Segr was caught in a 1943 Nazi roundup in Rome and transported to Auschwitz where she died Clear and concise *The Golden Age of Italian Jews* conveys the dramatic rise and brutal fall of Jews in Italy It is a poignant and important story *Globalizing Physics* Roberto Lalli,Jaume Navarro,2024-07-09 This is an open access book available under the terms of a CC BY NC ND 4.0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations Following the centenary of the International Union of Pure and Applied Physics this volume features contributions from leading science historians from around the world on the changing roles of the institution in international affairs from its foundation in 1922 to the present The case studies presented in this volume show the multitude of functions that IUPAP had and how these were related to the changing international political contexts The book is divided into three parts The first discusses the interwar period demonstrating how the exclusion of communities of the Central Powers from international scientific institutions imposed by victorious allied countries made IUPAP ineffective until the end of World War II The second part analyzes the changing roles assumed by IUPAP starting from its complete renovation after World War II Case studies covering the role of IUPAP in physics education in metrology in joint commissions with other unions and in defining the complex relations between pure and applied physics provide examples of IUPAP s impact on the world of science Part III squarely addresses the science diplomacy aspects of IUPAP during the Cold War highlighting the importance of IUPAP in furthering diplomatic goals and explaining the origin of the pursuit of the free circulation of scientists as the activity that characterized the main function of international unions during the Cold War Highlighting how often scientific agendas and political imperatives were entangled in the activities of IUPAP the book analyzes the work of the Union as exercises of science diplomacy thus contributing to the current debate on the use of science and technology in international relations *Astrophysics, Astronomy and Space Sciences in the History of the Max Planck Society* Luisa Bonolis,Juan-Andres Leon,2022-12-05 This book provides the first comprehensive historical account of the evolution of scientific traditions in astronomy astrophysics and the space sciences within the Max Planck Society Structured with in depth archival research interviews with protagonists unpublished photographs and an extensive bibliography it follows a unique history from the post war relaunch of physical sciences in West Germany to the spectacular developments and successes of cosmic sciences in the second half of the 20th century up to the emergence of multi messenger astronomy It reveals how the Society acquired national and international acclaim in becoming one of the world s most productive research organizations in these fields *Signatures of the Artist* Steven E. Vigdor,2018-03-09 How does the scientific enterprise really work to illuminate the origins of life and the universe itself The quest to understand our universe how it may have originated and evolved and especially the conditions that allow it to

support the existence of life forms has been a central theme in religion for millennia and in science for centuries. In the past half century in particular enormous progress in particle and nuclear physics and cosmology has clarified the essential role of imperfections, deviations from perfect symmetry or homogeneity or predictability in establishing conditions that allow for structure in the universe that can support the development of life. Many of these deviations are tiny and seem mysteriously fine-tuned to allow for life. The goal of this book is to review the recent and ongoing scientific research exploring these imperfections in a broad-ranging non-mathematical approach with an emphasis on the intricate tapestry of elegant experiments that bear on the conditions for habitability in our universe. This book makes clear what we know and how we know it, as distinct from what we speculate and how we might test it. At the same time it attempts to convey a sense of wonderment at the tuning of these imperfections and of the rapid rate at which the boundary between knowledge and speculation is currently shifting.

The Last Man Who Knew Everything David N. Schwartz, 2017-12-05 The definitive biography of the brilliant, charismatic and very human physicist and innovator Enrico Fermi. In 1942 a team at the University of Chicago achieved what no one had before: a nuclear chain reaction. At the forefront of this breakthrough stood Enrico Fermi. Straddling the ages of classical physics and quantum mechanics, equally at ease with theory and experiment, Fermi truly was the last man who knew everything at least about physics. But he was also a complex figure who was a part of both the Italian Fascist Party and the Manhattan Project and a less-than-ideal father and husband who nevertheless remained one of history's greatest mentors. Based on new archival material and exclusive interviews, *The Last Man Who Knew Everything* lays bare the enigmatic life of a colossus of twentieth-century physics.

The Pope of Physics Gino Segrè, Bettina Hoerlin, 2016-10-18 One of Booklist's Top 10 Science Books of the Year. A superb biography, a definite study of Fermi's life and work. *The Wall Street Journal*, A Bloomberg Best Book of the Year, A Finalist for Physics World's Book of the Year, A New York Times Book Review Editor's Choice. Nobel Prize winner Enrico Fermi is unquestionably among the world's greatest physicists, the most famous Italian scientist since Galileo. Called the Pope by his peers, he was regarded as infallible in his instincts and research. His discoveries changed our world: they led to weapons of mass destruction and conversely to life-saving medical interventions. This unassuming man struggled with issues relevant today, such as the threat of nuclear annihilation and the relationship of science to politics. Fleeing fascism and anti-Semitism, Fermi became a leading figure in America's most secret project: building the atomic bomb. The last physicist who mastered all branches of the discipline, Fermi was a rare mixture of theorist and experimentalist. His rich legacy encompasses key advances in fields as diverse as cosmic rays, nuclear technology and early computers. *The Pope of Physics* by Gino Segrè and Bettina Hoerlin is an engaging portrait of a man with boundless curiosity who delighted in his work and an entertaining and accessible biography of a scientist who deserves to be better understood. Publishers Weekly starred review. Intimate, often charming stories of the famed physicist's personal life, a book that's both intelligent and extremely engaging. *The Washington Post*

Intelligence, security and the

Attlee governments, 1945-51 Daniel W. B. Lomas, 2016-12-23 A ground breaking examination of the Attlee government's intelligence activities during the early stages of the Cold War drawn from previously unavailable documents **CERN Courier**, 2016 *Bruno Touschek's Extraordinary Journey* Giulia Pancheri, 2022-09-20 This book tells the story of a unique scientific and human adventure following the life and science of Bruno Touschek an Austrian born physicist who conceived and built AdA the first matter antimatter colliding beam storage ring the ancestor of the Large Hadron Collider at CERN where the Higgs Boson was discovered in 2012 Making extensive use of archival sources and personal correspondence the author offers for the first time a unified history of European efforts to build modern day particle accelerators from the dark times of war ravaged Europe up to the rebuilding of science in Germany UK Italy and France through the 1950s and early 1960s This book the result of several years of scholarly research work includes numerous previously unpublished photos as well as original drawings by Bruno Touschek The Spy Who Came in from the Circus Christopher Andrew, 2024-04-18 For almost half a century Bertram Mills Circus was a household name throughout Britain among both children and adults and its Director Cyril Bertram Mills was one of the best known and most influential names in the country's entertainment business But for forty years Cyril Mills had also enjoyed a top secret and wide ranging career in British intelligence obtaining the best aerial intelligence on Nazi rearmament for MI6 before the Second World War becoming the first case officer to monitor the best double agent Garbo of the war after joining MI5 and working part time during the Cold War for MI5 or 6 or both without being paid a penny Remarkably no word of Mills's secret career appeared in public until he was over eighty Nobody suspected that the glamorous world of pre war circus entertainment had been an extraordinarily fitting rehearsal for the lethal arena of deception and surveillance In this remarkable true story Christopher Andrew best selling official biographer of MI5 brings to life one of the most surprising and fascinating tales of espionage ever told *Quantum Legacies* David Kaiser, 2020-04-08 Engrossing Leave's us with a richer picture of physics as a lived activity Los Angeles Review of Books In *Quantum Legacies* David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher's limited view In *Quantum Legacies* Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human condition A masterpiece of historical analysis *Nature* A remarkable set of vignettes about major developments in physics and

cosmology of the past century Kip Thorne Nobel Laureate in Physics Beautifully written and extraordinarily well researched the book makes a profound point about the sociopolitical nature of science that all readers from physics buffs and historians to students and laypeople need to hear Amanda Geffer author of Trespassing on Einstein's Lawn

Secrets of the Cold War Andrew Long, 2024-01-05 The dramatic story of how the superpowers collected secrets and used intelligence to build an advantage during the Cold War the longest and most dangerous confrontation of the twentieth century The Cold War which lasted from the end of the Second World War to the collapse of the Soviet Union in 1991 was fought mostly in the shadows with the superpowers maneuvering for strategic advantage in an anticipated global armed confrontation that thankfully never happened How did the intelligence organizations of the major world powers go about their work What advantages were they looking for Did they succeed By examining some of the famous infamous or lesser known intelligence operations from both sides of the Iron Curtain this book explains how the superpowers went about gathering intelligence on each other examines the type of information they were looking for what they did with it and how it enabled them to stay one step ahead of the opposition Possession of these secrets threatened a Third World War but also helped keep the peace for more than four decades With access to previously unreleased material the author explores how the intelligence organizations both civilian and military took advantage of rapid developments in technology and how they adapted to the changing threat The book describes the epic scale of some of these operations the surprising connections between them and how they contributed to a complex multi layered intelligence jigsaw which drove decision making at the highest level On top of all the tradecraft gadgets and cloak and dagger the book also looks at the human side of espionage their ideologies and motivations the winners and losers and the immense courage and frequent betrayal of those whose lives were touched by the Secrets of the Cold War

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Half Life The Divided Life Of Bruno Pontecorvo Physicist Or Spy Introduction

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