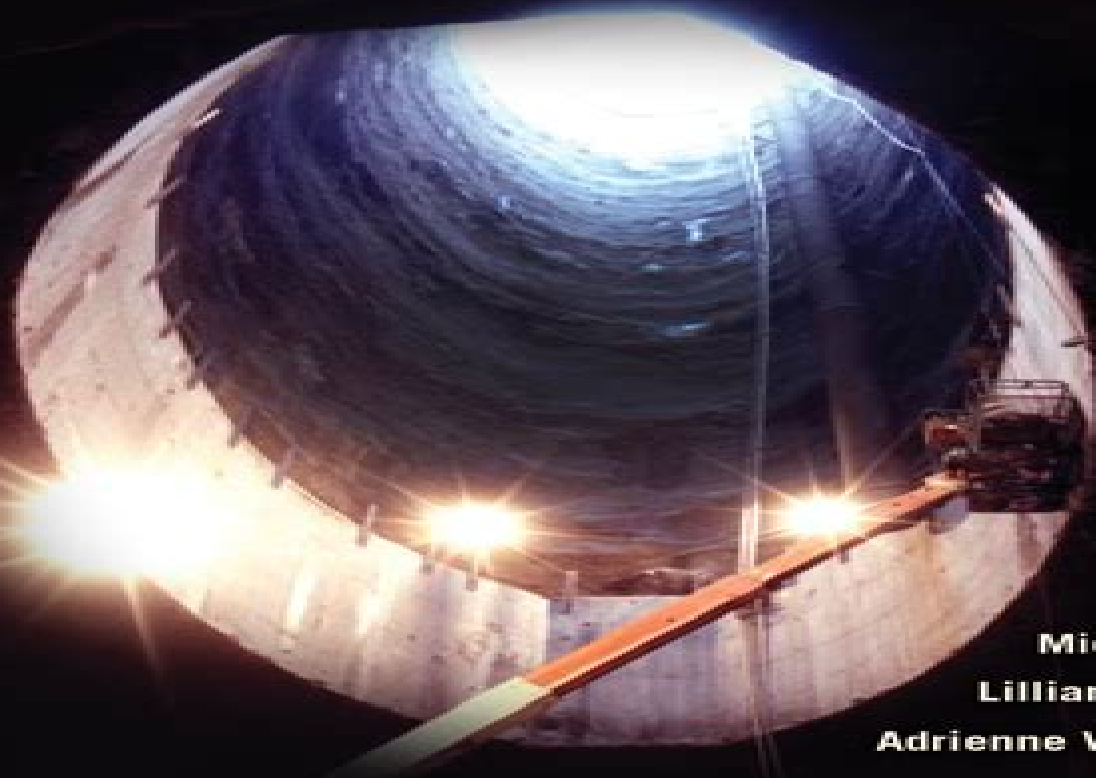




Michael RIORDAN
Lillian HODDESON
Adrienne W. KOLB

TUNNEL VISIONS

*The Rise and Fall of the
Superconducting
Super Collider*



Tunnel Visions The Rise And Fall Of The Superconducting Super Collider

John Harman Marburger (III)



Tunnel Visions The Rise And Fall Of The Superconducting Super Collider:

Tunnel Visions Michael Riordan, Lillian Hoddeson, Adrienne W. Kolb, 2015-11-20 In October 1993 the US Congress terminated the Superconducting Super Collider at the time the largest basic science project ever attempted with a total cost estimated to exceed 10 billion. Its termination was a watershed event, a pivot point not only in the history of physics but also for science in general. *Tunnel Visions* follows the evolution of the endeavor from its origins in the Reagan Administration's military buildup of the early 1980s to its post Cold War demise a decade later. The failure of the SSC raises the question of whether Big Science has become too big and expensive; can scientists and their government backers effectively manage such enormous undertakings? The case of the Super Collider offers important lessons about the conditions required to build and sustain a large scientific laboratory and the rise and fall of the SSC also serves as a cautionary tale about the long-term viability of a research community that comes to depend as much as did US high energy physics upon a single experimental facility of such an unprecedented scale. Riordan, Hoddeson, and Kolb have written the definitive history of the SSC. **Tunnel Visions** Michael Riordan, Lillian Hoddeson, Adrienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider, one of the largest scientific undertakings in the United States. *Journal of American History* Starting in the 1950s US physicists dominated the search for elementary particles, aided by the association of this research with national security; they held this position for decades. In an effort to maintain their hegemony and track down the elusive Higgs boson, they convinced President Reagan and Congress to support construction of the multibillion-dollar Superconducting Super Collider project in Texas, the largest basic science project ever attempted. But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars, Congress terminated the project in October 1993. Drawing on extensive archival research, contemporaneous press accounts, and over one hundred interviews with scientists, engineers, government officials, and others involved, *Tunnel Visions* tells the riveting story of the aborted SSC project. The authors examine the complex interrelated causes for its demise, including problems of large project management, continuing cost overruns, and lack of foreign contributions. In doing so, they ask whether Big Science has become too large and expensive, including whether academic scientists and their government overseers can effectively manage such an enormous undertaking. Focusing on the scientific, technical, and political conflicts that led to delays, ever rising costs, and eventually the SSC's cancellation by Congress, *Tunnel Visions* is a true techno-thriller. Burton Richter, winner of the Nobel Prize in Physics. Most good science stories are tales of discovery and success, but failure can be just as riveting. Here two historians and an archivist describe the greatest particle physics experiment that never was. *Scientific American* **Greedy Science** Michael D. Gordin, W. Patrick McCray, 2025-02-18 On the transformative role of greed in global science and technology during the 1980s. In the 1980s, a transformative era emerged where profit-driven motives and an entrepreneurial spirit dominated scientific research and technological innovation. This collection of essays, edited by Michael D. Gordin and W. Patrick McCray, examines

how greed reshaped the global scientific community through the relentless pursuit of money fame and celebrity Profiting off science and technology was not a new phenomenon nor were the soaring ambitions of some of its most fervent advocates However the global currents of knowledge production in the 1980s saw major cultural and scientific shifts the increasing frequency of university patenting the rise of academic entrepreneurship and collaborations between industries and academia for example Greedy Science seeks to survey and understand the full range of these changes Through insightful essays contributors examine case studies ranging from the biotech boom driven by early oil firm investments to the speculative market strategies in personal computing and alternative energy This period saw the rise of the celebrity status of scientists and raised questions about the moral complexities of scientific greed The authors argue that greed was an ever present and expansive trait of science during this time encompassing a host of behaviors such as covetousness acquisitiveness rapaciousness and conspicuous consumption Greedy Science provides a nuanced analysis of how market dynamics and the quest for personal gain profoundly influenced scientific advancements and public perception during a pivotal decade in science and technology Reviews Of Accelerator Science And Technology - Volume 7: Colliders Alexander Wu

Chao,Weiren Chou,2015-02-11 The idea of colliding two particle beams to fully exploit the energy of accelerated particles was first proposed by Rolf Widerberg who in 1943 applied for a patent on the collider concept and was awarded the patent in 1953 The first three colliders AdA in Italy CBX in the US and VEP 1 in the then Soviet Union came to operation about 50 years ago in the mid 1960s A number of other colliders followed Over the past decades colliders defined the energy frontier in particle physics Different types of colliders proton proton proton antiproton electron positron electron proton electron ion and ion ion colliders have played complementary roles in fully mapping out the constituents and forces in the Standard Model SM We are now at a point where all predicted SM constituents of matter and forces have been found and all the latest ones were found at colliders Colliders also play a critical role in advancing beam physics accelerator research and technology development It is timely that RAST Volume 7 is dedicated to Colliders **Reviews Of Accelerator Science And**

Technology - Volume 10: The Future Of Accelerators Weiren Chou,Alexander Wu Chao,2019-09-09 Volume 10 in the series of the annual journal Reviews of Accelerator Science and Technology RAST will be its final volume Its theme is The Future of Accelerators This volume together with previous 9 volumes gives readers a complete picture as well as detailed technical information about the accelerator field and its many driving and fascinating aspects This volume has 17 articles The first 15 articles have a different approach from the previous volumes They emphasize the more personal views perspectives and advice from the frontier researchers rather than provide a review or survey of a specific subfield This emphasis is more aligned with the theme of the current volume The other two articles are dedicated respectively to Leon Lederman and Burton Richter two prominent leaders of our community who left us last year **A Mind Over Matter** Andrew Zangwill,2021-01-08 A Mind Over Matter is a biography of the Nobel prize winner Philip W Anderson a person widely regarded as one of the most

accomplished and influential physicists of the second half of the twentieth century Anderson 1923 2020 was a theoretician who specialized in the physics of matter including window glass and metals magnets and semiconductors liquid crystals and superconductors More than any other single person Anderson transformed the patchwork subject of solid state physics into the deep subtle and coherent discipline known today as condensed matter physics Among his many world class research achievements Anderson discovered an aspect of wave physics that had been missed by all previous scientists going back to Isaac Newton He became a public figure when he testified before Congress to oppose its funding of an expensive project intended exclusively for particle physics research Over the years he published many articles designed to influence a broad audience about issues where science impacted public policy and culture Anderson grew up in the American mid west was educated at Harvard and rose to the pinnacle of his profession during the first decade of his thirty five career as a theoretical physicist at Bell Telephone Laboratories Almost uniquely he spent many years working half time as a professor at the University of Cambridge and at Princeton University The outspoken Anderson enjoyed broad influence outside of physics when he helped develop and champion the concepts of emergence and complexity as organizing principles to help attack very difficult problems in technically challenging disciplines *Dreams of a Super Collider*, 2016 Review of Tunnel Visions The Rise and Fall of the Superconducting Supercollider by Michael Riordan Lillian Hoddeson and Adrienne W Kolb University of Chicago Press 2015 **Fermilab** Lillian Hoddeson, Adrienne W. Kolb, Catherine Westfall, 2009-08-01 Fermi National Accelerator Laboratory located in the western suburbs of Chicago has stood at the frontier of high energy physics for forty years Fermilab is the first history of this laboratory and of its powerful accelerators told from the point of view of the people who built and used them for scientific discovery Focusing on the first two decades of research at Fermilab during the tenure of the laboratory's charismatic first two directors Robert R Wilson and Leon M Lederman the book traces the rise of what they call megascience the collaborative struggle to conduct large scale international experiments in a climate of limited federal funding In the midst of this new climate Fermilab illuminates the growth of the modern research laboratory during the Cold War and captures the drama of human exploration at the cutting edge of science Challenges And Goals For Accelerators In The Xxi Century Oliver Bruning, Stephen Myers, 2016-02-26 The past 100 years of accelerator based research have led the field from first insights into the structure of atoms to the development and confirmation of the Standard Model of physics Accelerators have been a key tool in developing our understanding of the elementary particles and the forces that govern their interactions This book describes the past 100 years of accelerator development with a special focus on the technological advancements in the field the connection of the various accelerator projects to key developments and discoveries in the Standard Model how accelerator technologies open the door to other applications in medicine and industry and finally presents an outlook of future accelerator projects for the coming decades **Science Policy Up Close** John Harmen Marburger (III), 2015-02-10 In a career that included Presidential Science Advisor to George W Bush John

Marburger stood on the front line of battles that pulled science deep into the political arena. Science controversies he discovered are never just about science. As his reflections show, science can no longer be shielded from public scrutiny and government supervision.

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