

The Ethereal Aether A History Of The Michelson Morley Miller Aether Drift Experiments 1880 1930 Jr Swenson Loyd S

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the ethereal aether is a historical narrative of one of the great experiments in modern

physical science the fame of the 1887 michelson morley aether drift test on the relative motion of the earth and the luminiferous aether derives largely from the role it is popularly supposed to have played in the origins and later in the justification of albert einstein s first theory of relativity its importance is its own as a case history of the intermittent performance of an experiment in physical optics from 1880 to 1930 and of the men whose work it was this study describes chronologically the conception experimental design first trials repetitions influence on physical theory and eventual climax of the optical experiment michelson morley and their colleague miller were the prime actors in this half century drama of confrontation between experimental and theoretical physics the issue concerned the relative motion of spaceship earth and the universe as measured against the background of a luminiferous medium supposedly filling all interstellar space at stake it seemed were the phenomena of astronomical aberration the wave theory of light and the newtonian concepts of absolute space and time james clerk maxwell s suggestion for a test of his electromagnetic theory was translated by michelson into an experimental design in 1881 redesigned and reaffirmed as a null result with morley in 1887 thereafter modified and partially repeated by morley and miller finally completed in 1926 by miller alone then by michelson s team again in the late 1920s meanwhile helmholtz kelvin rayleigh fitzgerald lodge larmor lorentz and poincaré most of the great names in theoretical physics at the turn of the twentieth century had wrestled with the anomaly presented by michelson s experiment as the relativity and quantum theories matured wave particle duality was accepted by a new generation of physicists the aether drift tests disproved the old and verified the new theories of light and electromagnetism by 1930 they seemed to explain einstein relativity and space time but in historical fact the aether died only with its believers

wer heute über medien spricht denkt nur selten an das schon in der antike bekannte fünfte element den Äther gerade im 18 und 19 jahrhundert haben Äther diskurse jedoch erheblich an der Formierung des modernen medienbegriffs mitgewirkt im Namen des Äthers erprobte man experimentell Thesen die erst nach dem zweiten Weltkrieg unter dem Namen Massenmedialität eine Adresse fanden eine Gemengelage aus physikalischem und okkultistischem Wissen gestattete es dieses zentrale Konzept moderner Medientheorie lange vor ihrem Begriff zu denken

This volume covers one of the most thrilling two year periods in twentieth century physics as matrix mechanics developed chiefly by w heisenberg m born and p jordan and wave mechanics developed by e schrödinger supplanted the earlier quantum theory the almost one hundred writings by einstein of which a third have never been published and the more than thirteen hundred letters show einstein s immense productivity and hectic pace of life einstein quickly grasps the conceptual peculiarities involved in the new quantum mechanics such as the difference between schrödinger s wave function and a field defined in spacetime or the emerging statistical interpretation of both matrix and wave mechanics inspired by correspondence with g y rainich he investigates with jakob

grommer the problem of motion in general relativity hoping for a hint at a new avenue to unified field theory einstein falls victim to scientific fraud when in a collaboration with e rupp he becomes convinced that the latter s experiments aimed at deciding whether excited atoms emit light instantaneously in quanta or in a finite time in waves confirm a wave theoretic explanation while it was known that the teenage einstein had been romantically involved with marie winteler in 1895 newly discovered documents reveal that his love for marie was rekindled in 1909 10 while he was still married to mileva marić the 1925 locarno treaties renew einstein s optimism in european reconciliation he backs the international manifesto against compulsory military service and continues his participation in the league of nations international committee on intellectual cooperation he remains intensely committed to the shaping of the hebrew university in jerusalem although his enthusiasm for this cause is sorely tested

ether and modernity offers a snapshot of the status of an epistemic object the ether or aether in the early twentieth century the contributed papers show that the ether was often regarded as one of the objects of modernity hand in hand with the electron radioactivity or x rays and not simply as the stubborn residue of an old fashioned long discarded science the prestige and authority of scientists and popularisers like oliver lodge and arthur eddington in britain philipp lenard in germany or dayton c miller in the usa was instrumental in the preservation defence or even re emergence of the ether in the 1920s moreover the consolidation of wireless communications and radio broadcasting indeed a very modern technology brought the ether into audiences that would otherwise never have heard about such an esoteric entity the ether also played a pivotal role among some artists in the early twentieth century the values of modernism found in the complexities and contradictions of modern physics such as wireless action or wave particle puzzles a fertile ground for the development of new artistic languages in literature as much as in the pictorial and performing arts essays on the intellectual foundations of umberto boccioni s art the linguistic techniques of lodge and ernst mach s considerations on aesthetics and physics witness to the imbricate relationship between the ether and modernism last but not least the ether played a fundamental part in the resurgence of modern spiritualism in the aftermath of the great war this book examines the complex array of meanings strategies and milieus that enabled the ether to remain an active part in scientific and cultural debates well into the 1930s but not beyond this portrait may be easily regarded as the swan song of an epistemic object that was soon to fade away as shown by paul dirac s unsuccessful attempt to resuscitate some kind of aether in 1951 with which this book finishes

an american scientist on the research frontier is the first scholarly study of the nineteenth century american scientist edward williams morley in part it is the long overdue story of a man who lent his name to the michelson and morley ether drift experiment and who conclusively established the atomic weight of oxygen it is also the untold story of science in provincial america what hamerla presents as science on the american research frontier

this important examination of morley s struggle for personal and professional legitimacy extends and transforms our understanding of science during a foundational period and leads to a number of unique conclusions that are vital to the literature and historiography of science by revealing important aspects of the scientific culture of the american heartland an american scientist on the research frontier deepens our understanding of an individual scientist and of american science more broadly in so doing hamerla changes the way we approach and understand the creation of scientific knowledge scientific communities and the history of science itself

marcel grossmann meetings are formed to further the development of general relativity by promoting theoretical understanding in the fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts in these meetings are discussed recent developments in classical and quantum gravity general relativity and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions with the main objective of gathering scientists from diverse backgrounds for deepening the understanding of spacetime structure and reviewing the status of test experiments for einstein s theory of gravitation the range of topics is broad going from the more abstract classical theory quantum gravity and strings to the more concrete relativistic astrophysics observations and modeling the three volumes of the proceedings of mg12 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments the scientific program of the meeting includes 29 plenary talks stretched over 6 mornings and 74 parallel sessions over 5 afternoons volume a contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theories to precision tests of general relativity including progress towards the detection of gravitational waves to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy in active galactic nuclei and in other galaxies neutron stars pulsar astrophysics gravitational lensing effects neutrino physics and ultra high energy cosmic rays the rest of the volumes include parallel sessions on dark matter neutrinos x ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics cosmic background radiation observational cosmology numerical relativity algebraic computing gravitational lensing variable constants of nature large scale structure topology of the universe brane world cosmology early universe models cosmic microwave background anisotropies inhomogeneous cosmology inflation gamma ray burst modeling supernovas global structure singularities cosmic censorship chaos einstein maxwell systems inertial forces gravitomagnetism wormholes time machines exact solutions of einstein s equations gravitational waves gravitational wave detectors data analysis precision gravitational measurements history of relativity quantum gravity loop quantum gravity casimir effect quantum cosmology strings branes self gravitating systems gamma ray astronomy

cosmic rays gamma ray bursts and quasars

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