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Today S Paper Physics Theory Today in History Born on 1 August 1905 in Lowell, Massachusetts, Helen Sawyer Hogg was an astronomer who specialized in galaxy clusters and variable stars. She earned her bachelor's degree in astronomy from Mount Holyoke College in 1926, and her master's and PhD degrees from Radcliffe College in 1928 and

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Understanding the origins of the Universe and how it works and evolves is the present mission of a large community of physicists. It calls for a large scale vision, involving general relativity, astrophysics, and cosmology. Theoretical physics is presently at an important moment in its history. As predicted by Einstein, gravitational waves have been experimentally proven to exist. With the discovery of the Higgs boson, the set of interactions and elementary particles that is called the "standard model" (SM), is complete. Yet the Higgs boson itself, and how it breaks the electroweak symmetry,

remains a fascinating subject requiring further studies and verification. Furthermore, several experimental facts are not accounted for by the SM: (i) the baryon asymmetry of the Universe, (ii) the nature and origin of dark matter, and (iii) the origin of neutrino masses; these have no unique, if any, explanation in the SM and yet will require answers from particle physics. We need to explore further both SM and its extensions. This is a subject of papers included in this book, which gives representation to the topics discussed during the Matter to the Deepest conference in 2019 in Poland (<http://indico.if.us.edu.pl/event/5>).

In many fields of scientific research, the highest distinction is the Nobel Prize. In mathematics, there is for historical reasons no Nobel Prize, however, the so-called Fields Medal awarded every 4 years for "Outstanding Discoveries in Mathematics" carries similar prestige and distinction. In this book 7 Fields Medalists have each written down their view of the current development of research in their respective fields. The book will appeal to every mathematician and graduate students of mathematics, and provides a fascinating insight and commentary on present-day mathematics as a growing and moving research discipline.

This book presents a perspective on the history of theoretical physics over the past two hundred years. It comprises essays on the history of pre-Maxwellian electrodynamics, of Maxwell's and Hertz's field theories, and of the present century's relativity and quantum physics. A common thread across the essays is the search for and the exploration of themes that influenced significant conceptual changes in the great movement of ideas and experiments which heralded the emergence of theoretical physics (hereafter: TP). The fundamental change involved the recognition of the scientific validity of theoretical physics. In the second half of the nineteenth century, it was not easy for many physicists to understand the nature and scope of theoretical physics and of its adept, the theoretical physicist. A physicist like Ludwig Boltzmann, one of the eminent contributors to the new discipline, confessed in 1895 that, "even the formulation of this concept [of a theoretical physicist] is not entirely without difficulty".¹ Although science had always been divided into theory and experiment, it was only in physics that theoretical work developed into a major research and teaching specialty in its own right.² It is true that theoretical physics was mainly a creation of turn-of-the-century German physics, where it received full institutional recognition, but it is also undeniable that outstanding physicists in other European countries, namely, Ampere, Fourier, and Maxwell, also had an important part in its creation.

A vivid and captivating narrative about how modern science broke free of ancient philosophy, and how theoretical physics is returning to its unscientific roots. In the early seventeenth century Galileo broke free from the hold of ancient Platonic and Aristotelian philosophy. He drastically changed the framework through which we view the natural world when he asserted that we should base our theory of reality on what we can observe rather than pure thought. In the process, he invented what we would come to call science. This set the stage for all the breakthroughs that followed--from Kepler to Newton to Einstein. But in the early twentieth century when quantum physics, with its deeply complex mathematics, entered into the picture, something began to change. Many physicists began looking to the equations first and physical reality second. As we investigate realms further and further from what we can see and what we can test, we must look to elegant, aesthetically pleasing equations to develop our conception of what reality is. As a result, much of theoretical physics today is something more akin to the philosophy of Plato than the science to which the physicists are heirs. In *The Dream Universe*, Lindley asks what is science when it becomes completely untethered from measurable phenomena?

This book offers the first comprehensive and authoritative text on the history of physics in Italy's industrial and financial capital, from the foundation of the University of Milan's Institute of Physics in 1924 up to the early 1960s, when it moved to its current location. It includes biographies and a historical-scientific analysis of the main research topics investigated by world-renowned physicists such as Aldo Pontremoli, Giovanni Polvani, Giovanni Gentile Jr., Beppo Occhialini, and Piero Caldirola, highlighting their contributions to the development of Italian physics in a national and international context. Further, the book provides a historical perspective on the interplay of physics and politics in Italy during both the Fascist regime and the postwar reconstruction period, which led to the creation of the CISE (Centro Informazioni Studi Esperienze, a research center for applied nuclear physics, funded by private industries) in 1946, and of the Milan division of the National Institute of Nuclear Physics (INFN) in 1951.

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After 1905, physics would never be the same. In those 12 months, Einstein shattered many cherished scientific beliefs with five great papers that would establish him as the world's leading physicist. On

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their 100th anniversary, this book brings those papers together in an accessible format.

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