1. Record Nr. UNINA9910337877503321 Autore Schirrmacher Arne Titolo Establishing Quantum Physics in Göttingen: David Hilbert, Max Born, and Peter Debye in Context, 1900-1926 / / by Arne Schirrmacher Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2019 **ISBN** 3-030-22727-8 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (128 pages) Collana SpringerBriefs in History of Science and Technology, , 2211-4564 Disciplina 530.12 530.12072 Soggetti **Physics** Quantum physics History History and Philosophical Foundations of Physics **Quantum Physics** History of Science Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Situating Göttingen in the History of Quantum Physics: A Contextual Nota di contenuto Approach -- From Generational Change to Scientific Opportunity --"Hilbert and Physics" — Vision and Resources -- The Born "Schools" in Berlin, Frankfurt and Göttingen -- Göttingen's Multiple Avenues Towards Quantum Mechanics -- Appendix: Selected Documents. . Sommario/riassunto Quantum mechanics – the grandiose theory that describes nature down to the submicroscopic level – was first formulated in Göttingen in 1925. How did this come about and why is it that Göttingen became the preeminent location for a revolution in physics? This book is the first to investigate the wide range of factors that were pivotal for quantum physics to be established in Göttingen. These include the process of generational change of physics professors, the hopes of

mathematicians seeking new fields of research, and a new

understanding of the interplay of experiment, theory and philosophy.