Record Nr. UNINA9910595053603321 Autore Pancheri Giulia Titolo Bruno Touschek's Extraordinary Journey: From Death Rays to Antimatter / / by Giulia Pancheri Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2022 **ISBN** 9783031038266 9783031038259 Edizione [1st ed. 2022.] Descrizione fisica 1 online resource (493 pages) Collana Springer Biographies, , 2365-0621 Disciplina 539.72 530.092 Soggetti Particle accelerators Physics - History Measurement Measuring instruments **Accelerator Physics** History of Physics and Astronomy Measurement Science and Instrumentation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Introduction (including about the European roads to particle colliders) Nota di contenuto -- Touschek came from Vienna -- The road from Norway: Rolf Widerøe and the Strahlentransformator -- Touschek and Widerøe during WWII: between Hamburg and Berlin -- Bruno Touschek in Germany after the War: 1945-46 -- Becoming a theoretical physicist in Glasgow: 1947-1952 -- A Laboratory on the hills: Frascati and the Italian road to

-- Touschek came from Vienna -- The road from Norway: Rolf Widerøe and the Strahlentransformator -- Touschek and Widerøe during WWII: between Hamburg and Berlin -- Bruno Touschek in Germany after the War: 1945-46 -- Becoming a theoretical physicist in Glasgow: 1947-1952 -- A Laboratory on the hills: Frascati and the Italian road to particle accelerators -- Bruno Touschek in Rome: January 1953-June 1959 -- Touschek's revolutionary proposal and the construction of a matter-antimatter ring in Frascati -- The French connection: from Frascati to the Linear Accelerator Laboratory at Orsay -- Bruno Touschek and Carlo Bernardini with AdA in Orsay -- Epilogue: After AdA.

Sommario/riassunto

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 warravaged 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.