

1. Record Nr.	UNISA996418445703316
Autore	Mussardo G.
Titolo	The ABC's of science // Giuseppe Mussardo
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-55169-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 248 p. 35 illus., 5 illus. in color.)
Disciplina	500
Soggetti	Science Science - History Scientists
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Absolute zero. Some like it cold -- Boltzmann. The genius of disorder -- Chandra. The journey of a star -- Dimensions. The story behind the scenery -- Euler. A mine of golden formulas -- Faraday. A portrait of the scientist as a young man -- Germain. Sophie's choice -- Harriott. Looking for Mr. Harry -- Ising. A magnetic modesty -- Jacobi. An elliptic thriller -- Kepler. Cannonballs and bee cells -- Landau. The Ten Commandments -- Maxwell. Fiat lux -- Numbers. Prime suspect -- Oppenheimer. An explosive plan -- Pauli. A strange couple -- Quantum. The garden of forking paths -- Rasetti. From atomic nuclei to Cambrian trilobites -- Spallanzani. The uncanny priest -- Tauschek. The Lord of the Rings -- Ulam. The art of simulation -- Venus. The cruel goddess -- Weil. The Brahmin of Mathematics -- X-ray. Seeing the invisible -- Yang. Mirror of Deception -- Zwicky. Dark is the sky.
Sommario/riassunto	Science, with its inherent tension between the known and the unknown, is an inexhaustible mine of great stories. Collected here are twenty-six among the most enchanting tales, one for each letter of the alphabet: the main characters are scientists of the highest calibre mostly of whom, however, are unknown to the general public. This book goes from A to Z. The letter A stands for Abel, the great Norwegian mathematician, here involved in an elliptic thriller about a fundamental theorem of mathematics, while the letter Z refers to Absolute Zero, the

ultimate and lowest temperature limit, - 273,15 degrees Celsius, a value that is tremendously cooler than the most remote corner of the Universe: the race to reach this final outpost of coldness is not yet complete, but, similarly to the history books of polar explorations at the beginning of the 20th century, its pages record successes, failures, fierce rivalries and tragic desperations. In between the A and the Z, the other letters of the alphabet are similar to the various stages of a very fascinating journey along the paths of science, a journey in the company of a very unique set of characters as eccentric and peculiar as those in Ulysses by James Joyce: the French astronomer who lost everything, even his mind, to chase the transits of Venus; the caustic Austrian scientist who, perfectly at ease with both the laws of psychoanalysis and quantum mechanics, revealed the hidden secrets of dreams and the periodic table of chemical elements; the young Indian astrophysicist who was the first to understand how a star dies, suffering the ferocious opposition of his mentor for this discovery. Or the Hungarian physicist who struggled with his melancholy in the shadows of the desert of Los Alamos; or the French scholar who was forced to hide her femininity behind a false identity so as to publish fundamental theorems on prime numbers. And so on and so forth. Twenty-six stories, which reveal the most authentic atmosphere of science and the lives of some of its main players: each story can be read in quite a short period of time -- basically the time it takes to get on and off the train between two metro stations. Largely independent from one another, these twenty-six stories make the book a harmonious polyphony of several voices: the reader can invent his/her own very personal order for the chapters simply by ordering the sequence of letters differently. For an elementary law of Mathematics, this can give rise to an astronomically large number of possible books -- all the same, but - then again - all different. This book is therefore the ideal companion for an infinite number of real or metaphoric journeys.
