

1. Record Nr.	UNINA9910254623403321
Autore	Bahr Benjamin
Titolo	Quirky Quarks : A Cartoon Guide to the Fascinating Realm of Physics // by Benjamin Bahr, Boris Lemmer, Rina Piccolo
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2016
ISBN	3-662-49509-0
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (338 p.)
Disciplina	500
Soggetti	Physics Popular Science in Physics Physics, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Preface; Contents; The Characters; The Particles; Measure for Measure; I - Rocket Science; Auroras; Light; Invisibility Cloaks; The Doppler Shift; Lasers; Vacuum and Air Pressure; Fluid Flow and Turbulences; Why Does a Plane Fly?; Surface Tension; Non-Newtonian Fluid; Rocket Maneuvers; Kepler's Laws; Conservation Laws; The Voyager Probes; Birth of the Solar System; Genesis of the Moon; Extrasolar Planets; II - The Cosmos; Spectral Classification; Red Giants and Planetary Nebulae; Supernovae; White Dwarfs and Type Ia Supernovae; Black Holes; The Big Bang; Timeline of Our Universe The Cosmic Microwave Background Large Scale Structure of the Universe; Galaxy Types; Relative Space and Time; The Theory of General Relativity; Curved Space Time; Gravitational Lensing; Dark Matter; Dark Energy; III - Quantum Mechanics; Wave-Particle Duality; The Double Slit Experiment; Heisenberg Uncertainty; Schrodinger's Cat; Feynman Paths; Quantum Tunneling; Radioactive Decay; Alpha, Beta and Gamma Rays; Nuclear Fusion; Superconductors; Superfluidity; Spin; Entanglement; Quantum Teleportation; Qubits; IV - Particle Physics; Atoms vs. Elementary Particles; The Neutrino Standard Model of Elementary Particles Antimatter; Particle Decays; Feynman Diagrams; The Strong Interaction; The Weak Interaction; E=mc ² ; The Higgs Mechanism; The Structure of the Proton; Particle

Accelerators; Particle Detectors; Cosmic Radiation; Neutrino Oscillations; Radiation Therapy; V - Beyond the Boundaries of Our Knowledge; Exotic Matter; Before the Big Bang; Quantum Gravity; Black Hole Evaporation; Wormholes; Tachyons; Warp Drive; Supersymmetry; String Theory; Extra Dimensions; Many Worlds; The End of the Universe

Sommario/riassunto

Hard Science Doesn't Have to be Hard Do you love quantum physics, cosmology, and the humor behind the popular television show The Big Bang Theory? Have you been on the lookout for a fun, non-technical explanation of the science behind things like time travel, wormholes, antimatter, and dark energy? You'll find all of that, and more, inside this fact-filled, cartoon-packed book. In *Quirky Quarks: A Cartoon Guide to the Fascinating Realm of Physics* you'll get: The latest science behind the mysteries of our universe explained in common everyday language. A major dose of cartoons, comics, and humor. A good grasp on the often-bizarre nature of reality. Start reading and you'll find that hard science does not have to be hard. Whether you're a teacher, a physicist, or just a lover of the curious, this is the book that delivers the facts in an engaging and entertaining cartoon world inhabited by two dogs, a cat, and some very quirky quarks. With cutting edge science articles by physicists Boris Lemmer and Benjamin Bahr, and drawings by cartoonist Rina Piccolo, this may be the most fun science reading you're likely to find out there.
