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The foundation of the physics of the 21st century is the so-called Standard Model of elementary particles of which all that exists is built in compliance with the laws of the theory of relativity and quantum theory. It 'unfortunate that the existing introductions to these sciences are beyond the reach not only of students but also of most physics teachers, all because of the complexity of the mathematics textbooks This little small It is the result of my attempt to present brece and with the utmost simplicity the foundations of the theory of Relativity (with its constant C) and quantum mechanics (with its main constant "). I understand, of course, that I cannot write A popular book that would be understandable to readers who do not know physical. As a result, this book is intended A ~ RST and promised for pro-V Page 7 February 23, 2012 9:39 World scienti A ~ c book - 7in x 5in ABCPhysics VI ABC of Physics: a very short guide Fessional physicists (especially for young professors) in the hope that some of them use the ideas presented in the book to write simple products and articles of modern scientific fame. In contrast to the Popular scientific books, this makes an excessive use of mathematical formulas. However, in contrast to the formulas in university textbooks, the formulas have been selected for this book are so simple that I teach you Chain of elementary math taught at high schools is su A ~ a ~ Client to understand them. I am therefore convinced that many of the pages of the book will also be very young and should help those attracted by physics to gradually expand their scientific horizons. To achieve this goal, the book ends with a detailed index. There is no doubt that the small size of this brief guide excludes use as a substitute for an appropriate textbook. Elementary material particles that move to speeds close to the speed of light C and very small values of the angular moment that is approaching Planck ", have very unusual properties. However, it is precisely their unusual and counterintuitive nature that makes the world around To us what it is. One of the best scientific descriptions of the world, based on the theory of relativity and quantum mechanics is found in the fundamental monographs written by Stephen Weinberg [1], [2], [3]. However, for Presenting the most essential 1 sections and corresponding chapters are marked by an asterisk. Page 8 February 23, 2012 9:39 World scienti A ~ C Book - 7in x 5in ABCPHYSICS Preface VII Elements of these sciences in this small and simplified book, Not only did I have to select the simplest formulas but also to refuse mention of many complex concepts that make the subjects of these and many other treaties of modern physics. 0.2 On the content of some of the chapters the fundamental concept of the theory of relativity is the relationship between Energy and Momentum P and Mass of a free particle. This report, explained in detail in chapter 4, allows you to understand within the same picture the properties of both the particles without mass, such as particles of light - photon, and particles with mass different from zero, as electron. According to quantum mechanics, the masses of all particles of a type, eg. The masses of all electrons in the universe are strictly identical. 2 Ahim A ~, equality E = MC, ubiquitous in popular science literature and interpreted by some as the dependence of the mass of particles M on particle speed V, promotes a false idea of which mass is actually. This false notion is still entrenched further when people refer to the maximum mass M as a "mass mass" and denote it from M0, breaking the link between the theory of relativity and the Newtonian mechanics, which is the limiting case of theory Return to low speed. The spin (ie the intrinsic angular (adequate) angular momentum of a particle) plays the fundamental role in the functioning of nature. (He would explain in Chapter 5 that the magnitude February 23, 2012 9:39 World Scienti A ~ C Book - 7in X 5in ABCPhysics VIII ABC of Physics: a very short guide of spin is usually expressed in units of ") Particles whose spin is a whole of A ~, they are known as Bosons. Particles whose spin is a multiple whole half of A ~, they are known as Fermions. The behavior of the particles in a system housing of two or more numerous number of fermioni is radically of i A ~ A ~, erent from the of particles in a two or more numerous bosons system. For example, the properties of the atoms in the periodic table of the elements 1 are a consequence of the electron spin equal to A ~. "2 The spin of the photon is equal to 1". The electrons interact with one another and with other particles electrically charged by exchanging photons. The theory of the interaction of photons with electrons is called quantum electrodynamics (QED). QED theory of physics is the most advanced and has been experimentally conjugated to ten signi A ~ digits. "Similarly, the exchange of gravitons - the massless particles with spin 2" - A e A ~ "explains the gravitation. in contrast to the approach favored by the majority of textbooks on quantum mechanics, the basis of presentation in this book is not the concept of relatively complex wave function of a physical system (the atom) but a concept much more simple of an elementary quantum state of the system (Atom level of energy), which is characterized by different values of quantum numbers. See chapter 5. you'll see in chapter 6 that what allows to introduce the amplitude of the transition between two states of quantum. the magnitude squared module gives the probability of transition (decay of an excited state of the book February 10, 2012 9:39 Scienti A ~ c book of the book - 5in x 7in abcphysics preface IX Atom with consequent emission of a photon) as a function of time for an ensemble of identical states. It should be noted that the decay of a particular atom is a completely random process and the time of the moment in which this decay will occur can not be predicted in principle. This approach eliminates many of di A ~ cullies interpretation of quantum mechanics involved in the problem of measuring (reduction of the wave function). On the other hand, this approach allows to highlight the quantum aspects that are not related to the measurement procedure, and then go over the cones of quantum mechanics as a science de A ~ ning establishing just relationships between the measurement results. Another specific feature of this book is that the conventional gravitational interaction is treated as a quantum process of exchange of a particle without mass of spin 2 known as Graviton. The constant GN Newton together with the constant A e *ec de A ~ the so-called mass planck 1 A e '5 mp = (A e" c / gn) 2 A e A * 2.2 A e A * 10 grams . The theory that describe the gravitational interactions of Energies on the order of 2 MP C has not been defined so far al-though the accuracy of descriptions of gravitation as gravizoni has been ruled out of the competition from experiments around the energies attainable. See Chapter 16. You - 0.3 Two beacons I wrote this book in the hope that will prove useful to young people and will help them in their place A ~ A ~

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