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Sections of Books

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**Other Publications**


3. Author of an op-ed article on nuclear weapons and espionage (1999).

We investigate the heavy-light mass spectra of D meson in this framework with Martin like confinement potential as in the case of Ds mesons studied recently [18]. If in the present case) shows about 0.76% variations in the binding energy with 5% changes in the parameters \( \lambda \) and \( \sigma \). Fig.(1) shows the energy level diagram of D meson spectra along with available experimental results. Magnetic (M1) Transitions of Open Charm Meson. Spectroscopic studies led us to compute the decay widths of energetically allowed radiative transitions of the type, \( A \to B + \gamma \) among several vector and pseudoscalar states of D meson. Comparison of the conclusions of the theory with the experimental results seems to indicate that the meson is of spin zero and is closely bound to the nucleons as is characteristic of pseudoscalar theory. View abstract. The mean free path for nuclear interaction of the penetrating particles produced in these nuclear interactions is 316\( \pm \)70 g/cm\(^2\) of lead, while for nuclear scattering (large angle scattering without the production of secondaries) it is at least 4 or 5 times this value. The projected zenith angular distributions of the secondaries from these interactions are given. Notes Phys. 817 (Springer, Berlin Heidelberg 2010), DOI 10.1007/978-3-642-14043-3. Lecture Notes in Physics ISSN 0075-8450. 82 5.4 Standard Parametrization of 3×3 Mixing Matrix . . . 86 5.5 On Models of Neutrino Masses and Mixing . . . 89. 6 Neutrino Oscillations in Vacuum . . . This is connected with the fact that neutrinos interact with matter via the exchange of the heavy virtual W ± and Z bosons. \( \bar{\nu} \epsilon \) Neutrino masses are many order of the magnitude smaller than the masses of leptons and quarks. Because of the extreme smallness of the neutrino cross section, special methods of the detection of neutrino processes must be developed.