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useful to note that the product of Planck's

constant $h = 6.6261 \times 10^{-34} \text{ J s}$ (1) and the
speed of light $c = 2.9979 \times 10^8 \text{ m s}^{-1}$ (2) is

$hc = 1239.8 \text{ eV nm} = 1239.8 \text{ keV pm} =$

1239.8 MeV fm (3) where $\text{eV} = 1.6022 \times 10^{-19} \text{ J}$ (4) Also, $\hbar c = 197.32 \text{ eV nm} = 197.32$

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 Abstract This is a collection of solved problems in quantum mechanics. These exercises have been given to the students during the past ex-aminations. 1 *Email: moretti@fe.infn.it †E-mail: andrea.zanzi@unife.it
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It contains more than 240 exercises and problems listed at the end of the chapters in Quantum Mechanics and presents full solutions to all these exercises and problems, which are designed to help the reader master the material in the primary text. This mastery will contribute greatly to understanding the concepts and formalism of quantum mechanics, including probability theory for discrete and continuous variables, three-dimensional real vectors, symmetric and

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