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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  $hc = 1239.8 \text{ eV nm} = 1239.8 \text{ keV pm} = 1239.8 \text{ MeV fm}$  (3) where  $\text{eV} = 1.6022 \times 10^{-19} \text{ J}$  (4) Also,  $\hbar c = 197.32 \text{ eV nm} = 197.32 \text{ keV pm} = 197.32 \text{ MeV fm}$  (5) where  $\hbar = h/2\pi$ .

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5.3, page 224 A free electron has wave  
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Mauro Moretti<sup>?</sup> and Andrea Zanzi<sup>†</sup>  
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exercises have been given to the students  
during the past ex-aminations. 1 <sup>?</sup>Email:  
moretti@fe.infn.it <sup>†</sup>E-mail:

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