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Modern Atomic and Nuclear Physics - World Scientific

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The Bohr radius of the hydrogen atom and the Compton wavelength of an electron are given by $a_0 = \frac{h^2}{m_e e^2}$ and $\lambda_c = \frac{h}{m_e c}$ respectively. Hence $\lambda_c = \frac{1}{2\pi} \left(\frac{h}{m_e c} \right) = \frac{1}{2\pi} \left(\frac{h^2}{m_e e^2} \right) = \frac{1}{2\pi} a_0 = \frac{1}{2\pi} \times 0.529 \text{ \AA} = 0.0847 \text{ \AA}$, where $\frac{1}{2\pi}$ is the fine-structure constant. Hence the answer is (a). 1004

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$1)/f(v. 1) = -0.000814/6.967 = -0.0001168$ The second approximation, therefore, gives $a = -2.1039291$. The third and higher approximations can be made in this fashion. The first approximation will be usually good enough in practice. $1.34y(x) = x^2 \exp(-x^2)$ (1) Turning points are determined from the location of maxima and minima.

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