

Physics

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Assignment - 3

Sem 2 (ECE+EE)

Q Solve the Schrodinger's Wave equation for one-dimensional motion of a particle in a box of length L . Also show that the normalized wave function for such particle is given by

$$\psi_n = \sqrt{\frac{2}{L}} \sin \frac{n\pi x}{L}$$

where $n=1, 2, 3, \dots$