A WKB-Type Approximation to the Schrödinger Equation

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1 Indledning

2 Solution to the stationary Schrödinger Equation

Hvis vi antager, at vi betragter en partikel i en dimension, x, er Schrödinger ligningen

$$\frac{\hbar}{2m}\frac{\partial^2 \psi}{\partial x^2} + V(x)\psi = E\psi \qquad (1)$$

defineres

$$P(x) := \sqrt{2m(E - V(x))} \qquad (2)$$

Kan ligning (1) omskrives til

3 The hydrogen atom

4 Solution to the stationary Schrödinger Equation

5 Solution to the stationary Schrödinger Equation

6 konklusion

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